TUCKER ELECTRONICS

Catalog 196C

BEST PRICE, BEST SERVICE, BEST TOTAL VALUE...GUARANTEED.
IF YOU FIND A BETTER VALUE, GIVE US A CALL.

Amateur Radio

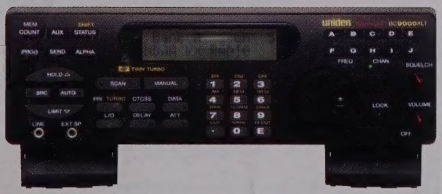
SECTION STARTS ON PAGE 21

Shortwave Radio

SECTION STARTS ON PAGE 13

Scanners

SECTION STARTS ON PAGE 6



Plus...

OUR NEW LINE OF 900 MHZ CORDLESS PHONES

SEE PAGE 77

WELLER AND XCELITE PROFESSIONAL TOOLS

SECTION STARTS ON PAGE 70

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as low as **$7.95!**

TO ORDER CALL 800·559·7388 24 HOURS A DAY **OR FAX 214·340·5460**

WELCOME / CONTENTS

Thank You For Your Support

Four years ago, we recognized an opportunity for our company to expand into the amateur radio and electronic hobbyist markets. We felt no one dealer was providing superior service to the amateur radio market. In addition, as a seller of new and refurbished electronic test and measurement equipment for over twenty-four years, a significant number of our commercial customers were also avid amateur radio operators. Therefore, we opened the largest amateur radio and electronic hobbyist store in Dallas/Fort Worth and began mailing a consumer catalog.

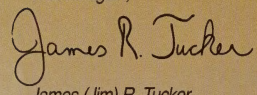
Today, we are proud to announce that our total revenues have more than doubled in just four years, making Tucker Electronics one of the largest companies serving the amateur radio market.

This tremendous growth has required us to make improvements in how we operate our business. In recent months, we have added a number of highly qualified managers and employees to enable the growth in our commercial and consumer businesses. We plan to make significant investments in technology to simplify and expedite our order fulfillment process. We are certain you will notice these changes and others during the next year.

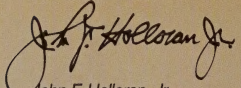
Over the next several months we will introduce new product lines from leading manufacturers, thereby allowing us to continue providing you with an innovative product offering and a service unparalleled in our industry.

Finally, we do listen to and appreciate your comments. We recognize you have many choices when determining where to purchase your radios, scanners, and related electronic products. As you read through this catalog, we think you will agree, Tucker Electronics provides the best value when considering service and reputation in your purchasing decision. If you do find a better value, give us a call! We will strive to keep your business.

Thanks again,



James (Jim) R. Tucker
President & CEO



John F. Holloran, Jr.
E.V.P. & Chief Operating Officer

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FedEx Shipping Available As Low As $7.95. See Order Form For Details.

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• *Prices in this catalog supercede all previous Tucker Electronics catalogs* •

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INTERNET ..... **HAMS@TUCKER.COM**

ADMINISTRATIVE OFFICES ..... 214•348•8800

Did You Know?

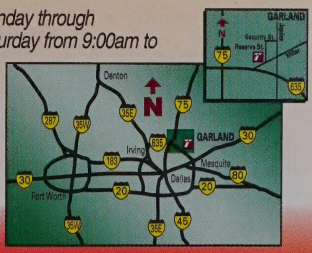
Welcome to the Tucker Electronics SuperStore. Discover Amateur Radio Equipment & Gear, Shortwave Radios, Scanners and Accessories, Test Equipment, Tools, and many other exciting electronic hobbyist products all on display and available for a personal demonstration by one of our many knowledgeable Sales Representatives. Because we stock a large inventory of new products for our high volume, mail-order business, you can always expect to find tremendous savings throughout our store. Save even more on demos, trade-ins, mail-order returns and overstocked products.

In recent months, we've knocked down walls, brought in more shelves, cabinets, and added many new items to develop a retail atmosphere unparalleled in our industry. Our SuperStore boasts over 9,000 square feet of display and demonstration areas. We've even included an Amateur Radio Museum and Coffee Bar/ Seminar Area, used by our customers, professional and community organizations, and manufacturer's for product demonstrations.

When you visit the Tucker Electronics SuperStore, you'll find more than a vast selection of products available at mail-order prices! You'll find our Sales Representatives are hobbyists like yourself and want to ensure you are totally satisfied with your purchase.

Finding the equipment, services, and pricing you need is all in knowing where to look. So on your next visit to Dallas stop in and see our SuperStore and let Tucker Electronics provide you with the ***BEST SERVICE, BEST PRICE, BEST TOTAL VALUE GUARANTEE!***

Our SuperStore is open Monday through Wednesday, Friday and Saturday from 9:00am to 6:00pm, and Thursday from 9:00am to 7:00pm. We are located at 1801 Reserve Street, Garland, Texas 75042, approximately 12 miles northeast from downtown Dallas.



What's New At Tucker Electronics?

Our New Radio Service Center

Tucker Electronics, continuing the tradition of providing the ***BEST PRICE, BEST SERVICE AND BEST TOTAL VALUE,*** *is proud to announce the opening of our New Radio Service Center. We are now a fully authorized Kenwood Warranty Repair Service, and invite you to call toll free for all your Kenwood warranty and non-warranty radio repairs.*

RADIO SERVICE CENTER: TOLL FREE 800•214•5779

PLUS

NEW!

$449

AEA DSP-232 MULTI-MODE W/DSP

The new AEA DSP-232 Multi-Mode data controller uses a state-of-the-art, 32 bit Digital Signal Processor providing the ultimate in signal filtering, speed, and modem performance. You won't believe the features, upgrade capability, or the affordability. You are no longer bound to the constraints of analog modems and slow 8 bit processors. Combined with the hardware memory ARQ, hardware HDLC, and DCD state machine the DSP-232 brings signals out of the noise so you can connect. And because of the powerful hardware, this unit will handle new modes and advanced applications in the future — making it the premier digital platform for today and the years to come.

Modes of Operation:

- *9600 and 1200 bps VHF Packet*
- *Pactor*
- *RTTY (ASCII & Baudot)*
- *NAVTEX*
- *HF Packet*
- *Amtor*
- *Morse*

There are 20 modems in all including two BPSK modems for satellite use and high/low tone pairs for international use.

Features:

- *Standard 32K RAM Mailbox*
- *RAM expansion to 128K or even 256K*
- *GPS commands*
- *APRS compatibility*
- *DAMA support*
- *External AFSK adjustments for Radio Port 1, 2, and 9600 operation*
- *Gateway firmware for node operation*
- *Identifies TCP/IP, TheNet, and NetRom stations*
- *EXPERT DISABLE command for beginners*
- *Software selectable modems*

SEE PAGE 77 FOR OUR NEW LINE OF 900 MHz PHONES

NEW!

BEST PRICE, BEST SERVICE, BEST TOTAL VALUE...GUARANTEED. IF YOU FIND A BETTER VALUE, GIVE US A CALL!

WE PUT YOU FIRST!

If you're in the market for a new radio, there are many dealers for you to choose from. You probably don't know this, but the mark-up on Amateur Radios is 10% or less. What this means to you is that in most cases, there's only going to be a few dollars difference in the prices among the dealers. If you do find an advertised product priced lower than ours, give us a call. We guarantee that when you consider the following, you'll agree that Tucker Electronics is the best place to buy your new radio equipment:

1. WHAT HAPPENS IF I BUY A RADIO AND DECIDE I DONT LIKE IT?

Tucker Electronics offers one of the best return policies in the Amateur Radio industry- a full 30 days to decide if the product is right for you. Radios are expensive these days; if you buy anything from Tucker, feel confident in the fact that if for any reason you find it's not the right one for you, within 30 days from receipt of order you can return it for a hassle-free refund or replacement— YOUR CHOICE!

2. WHAT HAPPENS IF MY RADIO IS DOA OR BREAKS AFTER I GET IT?

The Tucker Electronics 30 DAY RETURN POLICY takes care of you in this situation as well. If you buy your radio from us and it's DOA or breaks within 30 days from receipt of order, simply return it to us. We'll repair it IMMEDIATELY or give you a new one. We carry large inventories of all equipment, so we're able to promptly replace defective radios.

3. WHAT HAPPENS IF I NEED TECHNICAL SUPPORT?

Not only do we have a toll-free line for ordering; Tucker customers can feel confident in the fact that you can call us toll-free if you experience any problems with your purchases or just have a question. You will find a friendly, knowledgeable representative to assist you anytime you need it— Toll-Free!

4. HOW SOON CAN I GET MY ORDER?

For most orders, we ship via the fast, reliable FedEx® Economy shipping method. This assures you of getting your order in only 2-3 business days, all for an economical price. For those that need their order immediately, we offer you the option of overnight delivery for just $7.00 more!

DON'T FALL INTO THE TRAP OF BUYING BASED ON PRICE ALONE.

TAKE A LOOK AT ALL TUCKER ELECTRONICS GIVES YOU IN ADDITION TO LOW PRICES!

WE ARE SURE YOU WILL FIND THAT NO ONE OFFERS YOU MORE TOTAL VALUE!

AT TUCKER ELECTRONICS, WE PUT YOU FIRST!

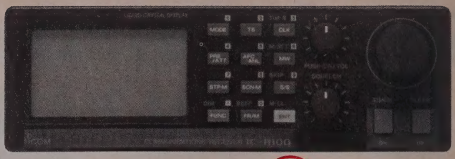
ICOM IC-R7100A12

VHF/UHF COMMUNICATIONS RECEIVER

$1449

This is our best communications receiver for the 25 to 2000 MHz spectrum. It features continuous coverage in this spectrum with all-mode (SSB, AM, FM, and WFM) capability and receiver specs that no "scanner" can touch. This is truly the receiver for professional monitoring. 900 memory channels store frequency, mode and tuning steps and can be scanned in 7 different ways including the Icom-exclusive window scan which allows you to scan 2 frequency ranges at once! Other features include selectable tuning steps, noise blanker, computer control option, easy-to-read S-meter, 2 squelch modes, a TV broadcast reception option and much, much more! Step up to the best with an Icom IC-R7100A12!*

** 800-900 MHz blocked*



ICOM IC-R100

ALL-BAND MOBILE COMMUNICATIONS RECEIVER

$649

If you want the best in a mobile communications receiver, the Icom-R100 fills the bill! It covers 500 kHz to 1800 MHz with AM, FM and wide-FM modes. You can directly enter any frequency from the keyboard, tune frequencies from the VFO knob, or let your R100 search any range of frequencies you specify. Store up to 100 of your favorite frequencies into the IC-R100's memory channels with receive mode, RF attenuator and preamplifier settings. Scanning is just as simple, with 7 different scan modes to choose from! Other great features include a 24 hour system clock, 15 dB pre-amplifier, multiple selectable tuning steps, automatic noise limiter and even an optional AC adapter for fixed-station use! Comes complete with mobile mounting bracket, DC power cable, wire antenna and telescopic antenna. *800-900 MHz Blocked.* ***Unblocked version available to Govt. Agencies/Telephone Companies.***

Items with this logo, due to oversize or overweight, are shipped via surface transport.

Due to fluctuating dollar/yen values, all Kenwood, Icom, & Alinco radios are subject to price changes. Call before ordering.

BEARCAT BC 9000XLT

CONTINUOUS BAND SCANNER

$399

The Bearcat BC9000XLT is a 500 channel, high performance continuous band scanner.
Features: 25 MHz to 1.3 GHz, V.F.O. Control, selectable attenuator, selectable mode, selectable delay, TurboScan™ & Search, LCD dot matrix alpha display, frequency transfer, automatic store, aux. line output, data skip feature, & programmable search.
Channels • 500 Channels (25 Channels x 20 Banks)
*Frequency Range • 25 to 550 MHz (12 ranges); 760 to 824 MHz (2 ranges); 849 to 1300 MHz (2 ranges)**
Display • LCD, 16 digits, 2 lines, dot-matrix type
Scan Rate • Up to 100 channels per second
Scan Delay • 2 seconds
Controls/Switches • Volume control with power on/off switch; Squelch control, Rotary tuner, Enter-lock SW
Audio Output • Max 2.2 W
Antenna • 50 Ω
** Cellular Blocked*

Bearcat

AOR AR3000A

HF/VHF/UHF COMMUNICATIONS RECEIVER

$1049

The new AR3000A is an evolutionary step forward in receiver technology. It has receive coverage from 100 kHz all the way up to 2036 MHz without any gaps in its range. It allows listening on any mode including NFM, WFM, AM, USB, LSB and CW. Triple (USB/LSB/CW/AM/NFM) and quadruple (WFM) conversion superheterodyne receiver performance uses 15 band pass filters in combination with GaAsFET RF amplifiers. 400 memory channels are provided in 4 banks. Each memory will retain mode, frequency, RF attenuator setting and lockout status. Search and scan speed is an unprecedented 50 increments per second. An RS-232 port is provided to enable full remote control via most computers. The AR3000A is powered from 13.8 VDC (AC power supply included). Also includes telescopic whip (BNC antenna input) and DC lead. Powerful 1.2 Watts of clear audio.*
**Cellular Blocked*

AOR

AOR AR-2700 NEW!

WIDE-BAND RADIO RECEIVER

$399

What an amazing breakthrough in value for under $400!! This full featured unit combines the important features of wide band coverage, auto-mode bandplan data (with override), fast scan/search rates & ease of operation with the latest innovations of optional computer control, and clone of data. There is even an option available that records 20 seconds of audio directly off the air for playback! This receiver covers the frequency range from 500 kHz to 1300 MHz and gives you 500 channels to put those frequencies in! Features: Auto-Mode tuning, AM, NFM & WFM, Optional voice recording, computer control, and data clone between sets.*

Frequency coverage • 500 kHz-1300 MHz (input accepted from 100 kHz)*
Receive modes • NFM. WFM, AM
Selectable tuning steps • AM & NFM: 5 kHz, 6.25 kHz, 9 kHz, 10 kHz, 12.5 kHz, 20 kHz, 25 kHz, 30 kHz, 50 kHz, & 100 kHz; WFM: 50 kHz & 100 kHz
Memory capacity • 500 ch total, 10 banks x 50 ch
Search banks • 10
VFO • One
Priority channel • One
Scan & search rate • 30 ch/sec approx
Antenna input • 50 Ω BNC
Power requirements • 4.8 V from 4 x AA internal NiCads; 6.0 V manganese/alka line; 9.0-16 V external
** 870-890 MHz blocked*
Options:
AOR RU-2700 Voice Recording Chip...$89.95
Optoelectronics CX-12AR Computer Control Interface.....$99.00

THE PEAK PERFORMER

AOR AR-8000

ALL MODE WIDE-BAND RADIO RECEIVER

$599

Entirely unrivaled in the hand-held scanner world. Covers 500 kHz-1900 MHz tuning (870-890 MHz cellular blocked) in 50 Hz steps. ALL MODE reception supports AM, USB, LSB, CW, NFM, and WFM modes. The NEW multi-line alphanumeric display allows you to enter descriptive information along with the frequency, and store it all in the 1000 memory channels provided. If you're new to scanning, this scanner can be set to New User Mode, easier-to-use than ever, while Expert Mode can be used when you're ready for it. A computer-control option is available for those interested in computer controlled scanner operation. If you want the hottest hand-held scanner around, this is the one for you!

Optoelectronics CX-12AR Computer Control Interface.....$99.00

Items with this logo, due to oversize or overweight, are shipped via surface transport.

OUR LOWEST PRICED 800 MHz DESKTOP

BEARCAT BC 860XLT

100 CHANNEL PROGRAMMABLE SCANNING RADIO

$189

Experience the power of 100 channel memory capacity... program each of these memory channels for your favorite frequency and go! 12 Bands, 10 Banks: enjoy 12 bands with Aircraft and 800 MHz; 10 banks of 10 channels are useful for grouping similar frequencies and selectively scanning these groups. A full frequency LCD display shows the channels being scanned and the frequency entered into each channel with backlit display. Features include Automatic Squelch, One-Touch Weather, Channel Lockout, Memory Backup, Programmable Delay, Manual Channel Access, 10 Priority Channels, Track Tuning, Twin Turbo™ Scan and Search, and Unique Data Skip. Frequency Range (Mode): 29-54 MHz; 108-174 MHz; 406-512 MHz; 806-956 MHz. 100 CH/S max. Scan Rate.*

** Excluding Cellular*

BEARCAT BC 890XLT

200 CHANNEL SCANNER WITH 800 MHz!

$275

This new item from Bearcat has frequency coverage through 956 MHz with 200 channels of action in 10 banks! The turbo scan feature lets you zip through the channels in lightning speed. 10 priority channels let you scan important frequencies every 2 seconds. It even includes a VFO knob for up-down frequency control. Other features include weather search, auxiliary tape output, weather alert, illuminated LCD display, reception counter, and step select. Frequency Range: 29 to 956 MHz (not continuous)*.*

Frequency Range • 29-54 MHz; 108-174 MHz; 216-512 MHz; 806-956 MHz (Public Service Except Cellular Band)
Power Requirements • 13.8 VDC
Size (mm) • 267 x 189,5 x 85
Weight • 1.75 kg.
Sensitivity • 12 dB SINAD; 0.5 µV 29-54 MHz; 0.7 µV 137-174 MHz; 0.8 µV 216-244 MHz; 0.8 µV 406-512 MHz; 1.0 µV 108-136.9875 MHz; 1.2 µV 225-399.9875 MHz; 0.8 µV 806-956 MHz
Accessories • Owner's Manual, AC Adapter, Telescopic Antenna
** Cellular Blocked*

Uniden MB601 Mounting Braket...$9.95

NEW!

BEARCAT BC3000XLT
SCANNER

$399

The Bearcat BC3000XLT is a portable scanner which is lightning fast, has an intelligent Auto Store feature, and remains calm in the presence of strong signals. Its 400 channels are divided sensibly into 20 banks of 20 channels each. Frequency coverage is 25 to 1300 MHz. AM, NFM, and WFM modes are user selectable on all frequencies. Features: automatic sorting, twin turbo: scan & search, channel lockout key, weather search, data skip feature, selectable attenuator, & rechargeable battery. *Cellular blocked.*

BEARCAT 230XLT
200 CHANNEL PROGRAMMABLE HANDHELD SCANNER

$249

A lot of scanner in a small, handheld unit! Provides 200 channels for storage of your favorite frequencies. Offers 12 Bands with Aircraft & 800 MHz plus Service Scan and 10 banks of twenty channels, useful for grouping similar frequencies and selectively scanning these groups. This unit is loaded with features including Pre-programmed Service (SVC) Search, TurboScan™ and TurboSearch™, Unique Data Skip, 10 Priority Channels, Manual Channel Access, Memory Backup, Programmable Search, One touch Weather, Channel Lockout Key, Full frequency LCD, and Rechargeable Ni-Cad Battery Pack! Frequency Range (Mode): 29 to 54 MHz, 108 to 174 MHz, 406 to 512 MHz, 806 to 956 MHz. *Cellular blocked.*

BEARCAT 80XLT
SCANNER WITH 800 MHz!

$189

The 80XLT is one of the best 800 MHz scanners available. It has 50 programmable channels and covers 11 bands including 800 MHz. It includes 5 channel banks, band search, memory backup, built-in Scan Delay, Full Frequency LCD, one-touch weather, and AC/DC operation. Other features include priority lock out and delay. Its patented track tuning with automatic and manual search make the 80XLT the only choice for the serious user. Treat yourself to all the excitement and drama of radio scanning as you've never heard it before. Uses convenient "AA" Alkaline or NiCad cells. Frequency Range: 29 to 54 MHz; 118 to 174 MHz; 406 to 512 MHz; 806 to 956 MHz *Cellular blocked.*

BEARCAT SC150 Y/B SPORTCAT
100 CHANNEL SCANNER DESIGNED FOR SPORTS ENTHUSIASTS

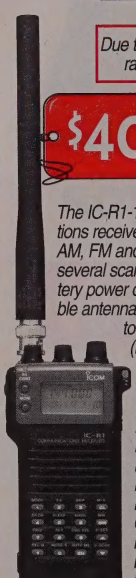
$199

The SportCat is designed specifically for sporting events, allowing you to go from one channel to the next with just a touch of a button . You can store up to 10 custom frequencies and for added convenience, there are also 10 corresponding channel identifiers. Features include 100 channels in 12 bands with 10 banks, pre-programmed band search, 10 priority channels, channel lockout and one touch weather. Turboscan lets you scan 100 channels per second and Turbosearch searches 300 steps per second. The unique data skip allows you to skip over unwanted data transmissions and substantially reduces birdies. Memory backup retains frequencies up to 3 days without batteries. The supplied rechargeable NiCad battery pack will supply up to 12 hours of use in the closed squelch position. Includes charger/AC adapter, rubber antenna, beltclip and earphone. Available in either black (SC150B) or striking yellow (SC150Y). 2.5" x 1.7" x 6". Frequency range: 29-54 MHz; 108-174 MHz; 406-512 MHz; 806-956 MHz (cellular blocked); Power Requirements: NiCad Battery (BP 120) 4.8 VDC 600 mAH (included) or 120 VAC/60 Hz (with AC Adapter AD-70U, included); Size: 25" x 1.7" x 6"; Weight: 12.6 oz; Accessories Included: AC adapter, rubber antenna, belt clip, owner's manual, and earphone.

Due to fluctuating dollar/yen values, all Kenwood, Icom, & Alinco radios are subject to price changes. Call before ordering.

$409

ICOM IC-R1-15
.1-1300 MHz HANDHELD COMMUNICATIONS RECEIVER



The IC-R1-15 is the ultimate in miniaturization in a hand-held communications receiver and our best seller! It covers 100 kHz to 1300 MHz with AM, FM and Wide FM modes. Features include: 100 memory channels, several scanning modes, sleep timer, low battery indicator, and several battery power options (listed below). Comes complete with wall charger, flexible antenna and belt clip. The built-in internal NiCad battery lasts about 3 to 4 hours, the various battery options below last much longer (BP-84 10 to 12 hrs.) Measures only 1.9" x 4" x 1.4" and weighs only 9.9 oz.*

** 800-900 MHz Blocked*

Popular Accessories:

BP-82 7.2 V/300 mAH Battery	*$66*
BP-83 7.2 V/600 mAH Battery	*$72*
BP-84 7.2 V/1000 mAH Battery	*$96*
BP-90 "AA" Battery Case	*$28*
BC-72A Rapid Charger	*$149*
CP-12 Cigarette Lighter Cable w/noise filter	*$32*
LC-57 Carrying Case for IC-R1 w/internal battery	*$21*
LC-59 Carrying Case for IC-R1 w/BP82/83/90	*$21*
LC-61 Carrying Case for IC-R1 w/BP84/85	*$21*

OPTOELECTRONICS SCOUT 40

FREQUENCY SCOUT

NEW!

The Scout can record and store into memory 400 unique frequencies within a 10 MHz to 1.4 GHz range, while being able to record up to 255 hits on each channel in memory! Digital Filter/Auto Capture allows the Scout to record frequencies automatically! This unit will even automatically Reaction Tune or Memory Tune many receivers (call for more information). Features 10 digit LCD, EL backlight, and 16 segment signal strength bargraph. NiCad batteries, AC adapter/charger and PC utility disk are included. (Shown configured with AOR AR-2700, not included, featured on page 7.)

SCANCAT GOLD

COMPUTER CONTROL PROGRAM FOR COMMUNICATIONS RECEIVERS

$94.95

If you've recently bought one of our communications receivers, such as the AR-3000A, Icom IC-R71A or IC-R7100, this computer program will make your listening a breeze!

Features Include:

- *Create frequency databases*
- *Scan between ANY frequencies*
- *Unlimited frequencies per file*
- *Multiple scanning banks*
- *Scan by any increment and delay*
- *Share any radio's file*
- *Faster performance*
- *QUICKTERM built in TNC comm. program with programmable macros*
- *Dual radio simultaneous scanning with Icom radios*

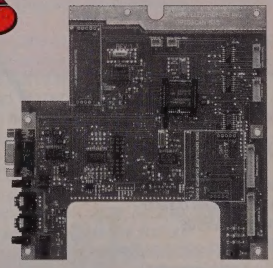
Requirements: 640 k, MS-DOS computer w/RS-232C serial port, hard disk, and manufacturer's interface. Controls the following radios: AOR 2500, 3000, 3000A, 8000, 2700, 3030; Drake R-8; Icom R-71A, R-7000, R-7100A, R-9000A; JRC NRD-525, NRD-535; Kenwood R-5000, TS-50, TS-440, TS-450, TS-850; Yaesu FT-757GX, FRG-100, FRG-9600; Pro 2005/6 and Pro 2035 with Optoscan board. Order# BOK106

Accessories:

BOK-107 Icom Squelch Detect Cable.....$24.95

BOK-108 Disk full of frequencies.....$15.95

OPTOELECTRONICS



OPTOELECTRONICS CX12AR

COMPUTER CONTROL INTERFACE

$99

Designed for use with the AOR (AR8000, AR3000, & AR2700) and CI-V receivers (Icom R7100, and R9000). The CX12AR is the only converter with two operating modes, switch selectable between Full Duplex and CI-V. The CX12AR is also the only converter with Dedicated Squelch Status input for the AR8000 & the R7000, with no need for additional connections. Another unique feature of the CX12AR is its software controlled tape recorder output. All cables, adapters and Demonstration Software are included, making the CX12AR the most affordable interface available.

OPTOELECTRONICS DC440

CTCSS/DTMF DECODER

$259

The DC440 decodes sub audible tones and codes as well as DTMF (touch-tone) characters. The high impedance audio input connects to the discriminator circuit in any VHF/UHF receiver, service monitor or scanner. An additional squelch circuit connection prevents false decodes. A CI-V serial data interface is provided. A two by sixteen alpha numeric, back lit, LCD display provides easily readable data output. Code Log software is available for data logging. Support by ScanStar and ScanCat software for use in computer aided scanning. For portable operation there is an available internal NiCad battery pack.

NiCad option $39

OPTOELECTRONICS OS535

COMPUTER INTERFACE

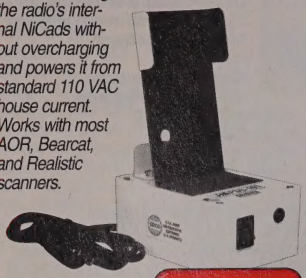
$259

High performance computer aided scanning! The OS535 allows for complete computer control of the Pro2035. The OS535 enhances the performance of the scanner by increasing its scanning speed up to 80 channels per second (depending upon the software used). Includes a built-in CI-V to RS232 serial interface for applications in which a receiver is connected to a computer, this feature eliminates the need for an external converter box. Also decodes CTCSS Tones, DCS Codes, DTMF Characters.

SSE PSU 101

SCANNER DESK CHARGER/ POWER SUPPLY

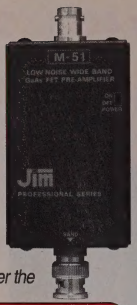
This quality, custom-designed combination desk charger and regulated power supply unit securely holds your scanner in a handy position. It charges the radio's internal NiCads without overcharging and powers it from standard 110 VAC house current. Works with most AOR, Bearcat, and Realistic scanners.



$59.95

JIM M51

SCANNER PRE-AMP



The M51 is the perfect companion for your handheld scanner or receiver. It features 20 dB gain over a wide 24 to 2150 MHz frequency coverage. GaAs FET design insures low-noise gain over the entire spectrum. Just hook up the M51 to your handheld scanner, hook the antenna to the M51 and go! Uses 2 AAA batteries, BNC connectors.

$99

Jim
PROFESSIONAL SERIES

BEST SELLER!

JIM M75

GaAs FET VHF/UHF SCANNER PRE-AMP

State of the art surface-mount technology coupled with features not found on other pre-amps makes the M75 simply the best. Wide band (24 to 2150 MHz), variable gain -10 dB (attenuation) to +20 dB gain. Bandwidth selector switch covers 3 bands: a) 225 to 1500 MHz-reduces TV, FM and Hi Power VHF pagers for clear UHF Airband, PSB, Cellular etc.; b) 108 to 185 MHz- for optimum reception of VHF Airband, 2m Amateur Radio, and other VHF communication eliminating VHF TV and FM bands; c) wide open 24 to 2150 MHz, low noise figure 2 dB gain. Comes with a BNC connector. Requires 12 VDC or 9 V battery.

$119

RAMSEY Kits

TUCKER KIT RETURN POLICY

You may return the entire unassembled kit for credit or refund. Once you begin soldering parts, you assume responsibility as the kit's manufacturer; therefore, Tucker Electronics cannot accept the return of any kit-in-progress or completed kit for any reason whatsoever.

Cases Sold Separately

$49.95

RAMSEY SCA-1

SCA DECODER

Ever wonder how restaurants and hotels get their continuous, commercial-free background music? They get it off the local FM radio station, but with a special decoder. Now you can build your own decoder and tap into the wealth of programming available to those "in-the-know". Programming available runs the gamut from stock quotes to rock music to easy listening to all the news. The decoder connects to the detector output on an FM receiver and tunes entire SCA subcarrier band (50-100 kHz). Features both speaker and in-line audio outputs. Tune into what you've been missing, try the SCA-1!

$27.95

CSCA Matching Case Set $14.95

BEST SELLER!

RAMSEY SCN-1

800-950 MHz SCANNER CONVERTER KIT

Tune in on all the action up in the 800 to 950 MHz band with your existing scanner. The SCN-1 converts uninterrupted 800 to 950 MHz frequencies down to 400 to 550 MHz which is tuned by your regular scanner. Hook-up is very easy, just connect your antenna to the SC N-1 and jumper the SCN-1 output to your scanner antenna jack- that's it! And, if you don't have an antenna good for the 800 to 950 MHz band, we even give you instructions on how to build a low cost, yet great performance antenna! Power is supplied by any 9 to 15 Volt DC source and the on/off switch conveniently switches the converter in and out of the circuit when not in use, saving you the hassle of switching antenna leads around. Building the SCN-1 is easy, fun, and takes only an hour or so, all critical parts are pre-aligned for goof-proof assembly. (Case Not Included)

CSCN: Matching case and knob $14.95
SCN-1WT: Wired and tested with case $89.95

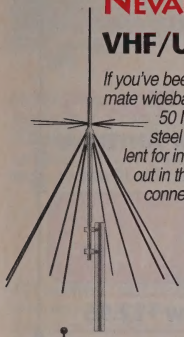
OUR BEST SELLING BASE STATION ANTENNA

NEVADA SE 1300

VHF/UHF DISCONE ANTENNA

$89

NEVADA



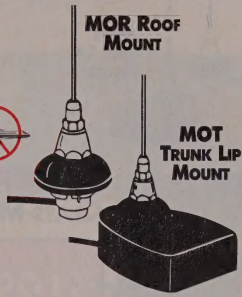
If you've been looking for a superior wide band omni-directional antenna covering 25 to 1300 MHz, this is it! The SE 1300 is the ultimate wideband omni-directional antenna for hours of listening pleasure. Not only is it a receiving antenna, but it can also transmit on 50 MHz, 144 MHz, 430 MHz, 900 MHz and 1200 MHz with a maximum power rating of 200 watts. The antenna has stainless steel construction and comes complete with low-loss "N" connector, mounting kit and short mast section. The SE 1300 is excellent for indoor installation since it's only 5' 6" and weighs just 2.2 lbs, yet its construction and weather protected feedpoint beg to be out in the elements. This antenna is a must if you want the best possible results! Also available as Diamond D-130 w/PL-259 connector...$99

HUSTLER MOBILE SCANNER ANTENNAS

HURRY! LIMTIED QUANTITIES

These antennas feature the solid Hustler construction found in all of their antennas and function reliably with good performance from 40 to 1999 MHz.

Your Choice $9.95 each

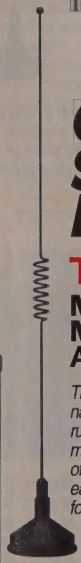


OUR BEST SELLING MOBILE ANTENNA

TUCKER TSA-75

MAGNETIC MOUNT MOBILE SCANNER ANTENNA

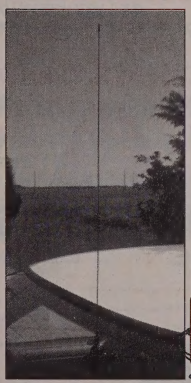
$14.95



The TSA-75 is an outstanding magnet-mount scanner antenna for 25 to 1300 MHz. The 19" whip is stainless steel for rust-proof performance for years to come. Our super-strong magnet is better than anything we've ever carried before. 12' of RG-58 coax comes complete with a BNC connector for easy connection to your scanner. We warranty this antenna for one year and as with our other Tucker Brand products, it comes with our 30 day SatisfactionPlus guarantee.

TUCKER TSA-600

GLASS-MOUNT SCANNER ANTENNA



This glass-mount antenna is perfect for those of you that do not want to drill a hole or place a magnet mount on your vehicle. It installs on both sides of your window glass with no need to drill any holes. The signal is transferred through the glass, making installation a snap. It covers the entire scanner spectrum of 30 to 1200 MHz and is only 22" high. Comes complete with 17' of RG-58 coax and BNC connector. Of course, it comes with our 1 year warranty behind it and our SatisfactionPlus guarantee - You'll love this antenna! Not for use on tinted windows.

$19.95

Items with this logo, due to oversize or overweight, are shipped via surface transport.

OUR BEST SELLING HANDHELD ANTENNA

DIAMOND RH-77CA

VHF/UHF HT ANTENNA

$31.95

This great little antenna gives excellent gain on transmit through 950 MHz. Where it really shines though, is receive. Use it on your handheld scanner or receiver for much better reception than the factory antenna. 15" long.

PREMIER RD-78

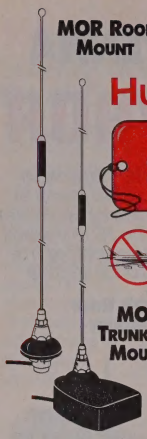
DUAL BAND ANTENNA

Dual band, 2m/70cm (2.15 dB/3.2 dB), also covers 800-900 MHz (receiving only). It's a black flexible rubber whip, 15" OAL, with a gold BNC connector. This antenna works very well in scanning 12 MHz to 1 GHz.

$23.95

OVERSTOCKED ANTENNA SALE

LIMITED QUANTITIES!



MOR ROOF MOUNT

MOT TRUNK LIP MOUNT

HUSTLER MOBILE SCANNER ANTENNAS

Your Choice $9.95 each

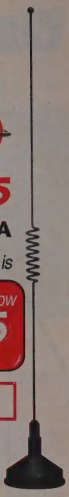
These antennas feature the solid Hustler construction found in all of their antennas and function reliably with good performance from 40 to 1999 MHz.

TUCKER TSA-75

MAGNETIC MOUNT MOBILE SCANNER ANTENNA

The TSA-75 is an outstanding magnet-mount scanner antenna for 25 to 1300 MHz. The 19" whip is stainless steel for rust-proof performance for years to come. Our super-strong magnet is better than anything we've ever carried before. 12' of RG-58 coax comes complete with a BNC connector for easy connection to your scanner. We warranty this antenna for one year and as with our other Tucker Brand products, it comes with our 30 day SatisfactionPlus guarantee.

Was $19.95 - Now $14.95



VALOR 647NP SCANNER DISCONE...WAS $39.95...NOW $12.95

TUCKER TSA-600

GLASS-MOUNT SCANNER ANTENNA

Was $39.95 - Now $19.95

This glass-mount antenna is perfect for those of you that do not want to drill a hole or place a magnet mount on your vehicle. It installs on both sides of your window glass with no need to drill any holes. The signal is transferred through the glass, making installation a snap. It covers the entire scanner spectrum of 30 to 1200 MHz and is only 22" high. Comes complete with 17' of RG-58 coax and BNC connector. Of course, it comes with our 1 year warranty behind it and our SatisfactionPlus guarantee- You'll love this antenna!

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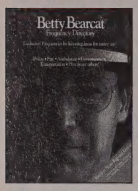
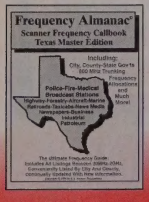


S·A·L·E

GREAT BUYS ON SCANNER BOOKS!

Emergency Radio-Scanning News as it Happens	BOK 188	Was $14.95	Now $9.95
Shortwave Antennas	BOK 162	Was $16.95	Now $12.95
D/FW Frequency List	BOK 32	Was $19.95	Now $14.95
Citizen's Guide To Scanning	BOK 84	Was $19.95	Now $12.95
Scanner Master- National Sports & Recreation Frequency Directory	BOK 186	Was $13.95	Now $9.95
Crisis Communications	BOK 109	Was $10.95	Now $7.95
Betty Bearcat Frequency Directories			
Great Lakes	UDN RFD 001	Was $14.95	Now $7.95
New England	UDN RFD 002	Was $14.95	Now $7.95
Mid Atlantic	UDN RFD 003	Was $14.95	Now $7.95
Southeast	UDN RFD 004	Was $14.95	Now $7.95
N. Plains	UDN RFD 005	Was $14.95	Now $7.95
Southwest	UDN RFD 006	Was $14.95	Now $7.95
S. Plains	UDN RFD 007	Was $14.95	Now $7.95
U.S. Frequency Almanacs			
(WV)	BOK FA50	Was $9.95	Now $7.95
(MI)	BOK FAMI	Was $19.95	Now $12.95
(VA)	BOK FA39	Was $19.95	Now $12.95
(AZ)	BOK FA9	Was $19.95	Now $12.95
(IA)	BOK FA15	Was $19.95	Now $12.95
(MD/DC)	BOK FA20	Was $19.95	Now $12.95
(OH)	BOK FA32	Was $19.95	Now $12.95
(CO)	BOK FA10	Was $19.95	Now $12.95
(IL)	BOK FA3	Was $24.95	Now $16.95



AOR AR3030

GENERAL COVERAGE RECEIVER

$799

The AR3030 boasts a wide frequency coverage from 30 kHz to 30 MHz and all mode option "as standard": AM, S.AM (synchronous), NFM, USB, LSB, CW, & FAX. Tuning is via a silky smooth rotary tuning knob with a minimum step of 5 Hz (selectable for faster / slower tuning), there are two VFOs and dial lock to prevent accidental loss of frequency while listening. It also has a number of unique facilities to offer. In particular the BFO is switchable on USB/LSB/CW and FAX modes. The AR3030 has a 66 mm 3 W built-in front facing speaker thanks to clever chassis design which has succeeded in producing crisp, clear audio through a deceptively small front speaker grille. There are 100 memory channels which allow data to be transferred into and out of memory for greatest flexibility. Memory channels retain frequency, mode, bandwidth, AGC, attenuator and tone etc. A large high contrast green backlit LCD presents frequency up to the nearest 10 Hz (not 1 kHz as some receivers) for accurate tuning. All relevant information is displayed on the LCD. Experience the AOR AR3030, order yours today.

ICOM IC-R71A

COMMUNICATIONS RECEIVER

$1299

This receiver covers the entire spectrum from 100 kHz to 30 MHz and is as professional in performance as they come. The latest Icom receiver delivers performance features such as passband tuning and that excellent Icom clean receiver feel. That receiver performance is what separates this radio from its competitors. 86 dB dynamic range and 60 dB image rejection are just examples of its excellent performance in this area. Features are too numerous to list but include 32 memories, 2 VFOs, optional computer interface and 3 selectable filters.

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◆ *Due to fluctuating dollar/yen values, all Kenwood, Icom, & Alinco radios are subject to price changes. Call before ordering.*

WATKINS-JOHNSON HF-1000

HF RECEIVER WITH DSP

$3799

The HF-1000 is a fully synthesized HF Receiver for 5 kHz to 30 MHz with 1 Hz tuning resolution. Functions such as synchronous AM detection, noise blanking, IF filtering, AGC, demodulation, BFO and passband tuning are accomplished through the use of DSP technology. 58 IF bandwidths are available through filters. These filters range from 56 Hz to 8 kHz! AM, FM, CW, USB, LSB, and ISB modes are standard. 100 memory channels with scanning modes make frequency recall easier than ever. The HF-1000 can be controlled from the front-panel or via one of its 2 RS-232C interfaces. The quality of the receiver is equal to equivalent commercial receivers costing over $10,000! Call, Write or Fax for complete information on this outstanding new receiver made in the U.S.A.!

KENWOOD R-5000

COMMUNICATIONS RECEIVER

$1019

Kenwood's competition-class R-5000 goes beyond meeting the demands of today's operators: it sets the pace for the next generation of communication receivers. Experience all-mode coverage from 100 kHz to 30 MHz- with the option of 108-174 MHz VHF coverage. Experience with the dual digital VFOs, tunable notch filter, dual-mode noise blanker, versatile memory and scan functions. Enjoy the superb dynamic range that comes from Kenwood's exclusive DynaMix high-sensitivity direct mixing system.

Features include:

- *ALL MODE OPERATION: SSB, CW, AM, FM AND FSK modes are confirmed in CW*
- *SUPERIOR INTERFERENCE REDUCTION: IF shift circuit, Notch filter, Noise Blanker, dual SSB filters and CW filter options that are automatically or manually selected*
- *100 MEMORY CHANNELS: Ensured by lithium battery backup*
- *VERSATILE SCAN FEATURES: Memory scan, band scan and more*
- *DUAL 24 HOUR QUARTZ CLOCKS: With timer and remote control outputs*
- *BUILT-IN AC POWER: Or select 12 V operation*

Popular Accessories:

VC-20 VHF Converter Unit (108-174 MHz)	*$229.00*
IF-232C Computer Interface	*$124.95*
YK-88C CW Filter- 500 Hz	*$99.95*
YK-88CN CW Filter- 250 Hz	*$99.95*
YK-88SN SSB Filter- 1.8 kHz	*$129.95*
YK-88A-1 AM Filter- 6 kHz	*$99.95*

SONY ICF-SW77
WORLD BAND RECEIVER

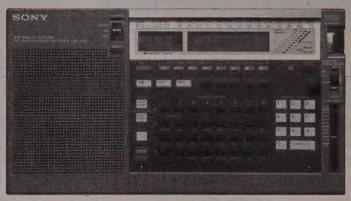
$449

Sony's premiere shortwave radio eliminates the biggest problems of shortwave listening: fading and distortion. Its revolutionary synchronous detection circuitry compensates for the characteristic fading of the SWL bands and leaves the most pleasant audio quality of any radio on the market. The PLL-controlled 10-key direct access tuning covers 1 to 30 MHz as well as FM stereo. Programming your favorite stations is easy with 162 station memory preset tuning. Other features include built-in dual time clock with alarm and sleep function, programmable timer with tape record-out jack and backlit LCD readout with contrast adjustment plus more. Accessories include: AC power adapter, stereo headphones, carrying belt, compact shortwave antenna, external antenna connector and complete shortwave guides.

Frequency Range • FM: 76.5 MHz-108 MHz; LW/MW/SW: 150 kHz-29,999.9 kHz
Power Requirements • 6 VDC; 4 "C" Batteries (optional); 120 VAC/60 Hz (AC Adapter supplied); DCC-E160L Car Battery Cord (optional) for use with 12 V car battery
Dimensions • 10.875" x 6 .8125" x 1.8125"
Weight • 3 lbs. 4 oz. including batteries
Supplied Accessories • AC Power Adapter, Stereo Headphones, Carrying Belt, compact Shortwave Antenna, External Antenna Connector "Wave Handbook", and "How To Catch The Wave Guide"

BEST SELLER!

SONY ICF-2010
WORLD BAND RECEIVER



$359

The 2010 is the world's best-selling shortwave radio, and for good reason. This radio introduced the synchronous-detector circuit that revolutionized shortwave-listening. Full-band AM/FM/aircraft band coverage with 32 memory presets. Includes the world's most accurate tuning system with direct-entry as well as tuning knob convenience. Also includes a 24 hour alarm clock with sleep timer and programmable turn-on. This radio is regarded by all leading authorities as the best portable on the market. Includes earphone, AC adapter and external antenna adapter.

Frequency Range • AM: (SW, MW, LW) 150-29,999.9 kHz; FM: 76-108 MHz; Air: 116-136 MHz
Power Requirements • Radio Section: 3 "D" Batteries (not incl.) or 120 VAC/60 Hz with AC-D3 AC Adapter (supplied); Quartz Clock: 2 "AA" Batteries (optional)
Dimensions (WHD) • 11.375" x 6.25" x 2.0625"

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LIMITED QUANTITIES

SONY ICF-SW100S
WORLD BAND RECEIVER

$299

This new receiver gives you outstanding performance in a radio small enough to fit in your shirt pocket. It is the smallest radio available that features synchronous detection. This ultimate travel radio is perfect for taking abroad with its world time clock that is adjustable to any time zone by setting it to the names of major cities around the world. It can also wake you up every morning with its built in dual clock/alarm. Keeping track of each of its 50 memories is a snap because you can store the name of the station on the LCD display. Covers 150 kHz to 30 MHz continuously as well as AM broadcast and FM stereo. Comes complete with AC power adapter, stereo headphones, power supplied active antenna, shortwave guide and carrying case. Measures only 4.375" x .6875" x 2.875"

SONY
Authorized Dealer

Frequency Range • FM (76 to 108 MHz) LW/MW/SW 150 to 29.999 MHz
Inputs • DC-In, 3 V
Outputs • Headphone Jack
Power Output • Speaker: 250 mW at 8 ohms
Power Requirements • "AA" x 2 Batteries (not incl.)
Supplied Accessories • Short Wave Guide Book, AC Power Adapter, Power Supplied Active Antenna, Headphones, Carrying Case.

GRUNDIG SATELLIT 700
SHORTWAVE RECEIVER

$499

The Satellit 700 is Grundig's most sophisticated portable world receiver available. It features phase-lock-looped synchronous detection circuitry for seamless AM, FM, LW and Shortwave reception from 1.6 to 30 MHz. The unprecedented 120 factory pre-programmed frequencies for worldwide reception makes tuning into the world's shortwave broadcast almost as simple as touching a button. You also have 512 alpha numeric user-programmable memory positions which can be expanded to 2048 memory positions so you can build your own favorite-station radio archive. With PLL tuning, selectable wide/narrow band width filter, and a redesigned and vastly improved synchronous detector, the Satellit 700 offers unparalleled reception, sensitivity and selectivity. The 700 comes equipped with a built-in NiCad battery charger, the Grundig shortwave frequency guide, and a one-year warranty covering parts and labor.

Specifications:
Frequency • 530 kHz-30 MHz (continuous)
Output Power • 2x3 watts peak power (operation with external speakers)
Input Power • 110-127/220-240 VAC, 50/60 Hz (AC adapter included); Battery operation by 4 "D" size (built-in NiCad battery charger)
Size • 12" x 7 .5" x 2 .75"
Weight • approx. 4 lbs.

GRUNDIG
made for you

SONY ICF SW-1000T

SHORTWAVE RECEIVER WITH CASSETTE RECORDER

$549

For the first time Sony integrates a stereo cassette recorder/player into a World Band receiver! The built-in timer lets you record programs off the air for later playback! The receiver features complete 1-30 MHz reception as well as AM broadcast and FM stereo. A Synchronous Detector is built-in for fade-free shortwave reception. Direct access tuning is standard with 1 KHz step tuning as well. 32 memory presets let you store your favorite stations. All of this plus a built-in clock with alarm! The cassette recorder/player features auto reverse, cue/review, auto tape select and a feather touch mechanism. Get it all with this amazing new receiver!

SONY Authorized Dealer

1995 #1 SELLER!

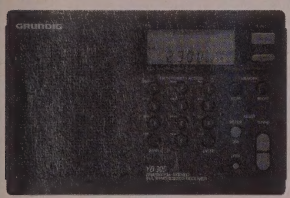
SONY ICF-SW 7600G

WORLD BAND RECEIVER

$199

Sony brings together some of their most innovative features in this outstanding, low cost receiver. Now, for the first time, the remarkable synchronous detection feature is available in a receiver for less than ›200! Not only do you get fade-free shortwave reception, but also SSB and FM stereo! Covers 150 kHz to 30 MHz continuously as well as AM and FM broadcast. You can tune via direct entry from the keypad or the up-down control. The receiver performance is typical Sony quality with dual conversion superheterodyne circuitry. Tuning is in 1 kHz steps with a large LCD display. Includes 22 station presets, a built-in clock with sleep timer and a large 3" speaker. Comes complete with compact antenna and guide book. One of the most exciting new receivers in years!

ACE 60HG AC Adapter .....only $19.95.



GRUNDIG YB-305

SHORTWAVE RECEIVER

$149.95

NEW!

Exceptional sound and memory capacity receiver for an amazing low price. Grundig new digital YB-305 is the latest in a long line of easy to use quality products. The YB-305 features a large cavity speaker and 30 memory presets. Multi-tuning features include direct entry digital tuning, auto scan and up and down slewing. The YB-305 also contains continuos short wave coverage from 2.30-21.85 MHz. The YB-305 is versatile as well, weighing only 19 ounces, it can travel with you at ease. This powerful receiver covers all SW Bands, medium wave and FM stereo signals. Unit also includes a DX/Local switch which allows the optimization of receivers for incoming signals. The YB-305 also comes equipped with a multi-function digital readout with liquid crystal display showing frequency, band, memory preset, low battery warning and includes a built in ferrite core antenna to allow reception of even the smallest AM stations. It can also be upgraded easily to professionally engineered shortwave antennas. All of this plus the security of a one year limited warranty providing coverage for parts and labor. The Grundig YB-305, all the right features for the right price, an opportunity too great to pass up.

GRUNDIG
made for you

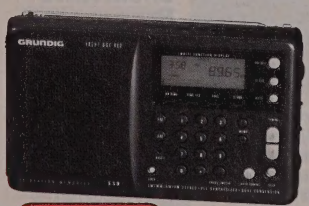
SANGEAN™
A World of Listening

SANGEAN ATS-818CS

DIGITAL SHORTWAVE RECEIVER WITH RECORDER

$219

Imagine recording your favorite shortwave programs while you are away at work, school, etc.! Well now you can with the 818CS which combines the VCR with World Band Radio. This unit has it all, 16 band digital shortwave receiver w/programmable cassette recorder, BFO for SSB reception, AM/FM stereo and 45 presets. Other features include dual time display, sleep timer, tone control, and more.



GRUNDIG YB-400

SHORTWAVE RECEIVER

$199

The new Yacht Boy 400 was hailed as "the best compact shortwave portable tested" by the 1994 Passport to World Band Radio. It covers AM, FM stereo, and shortwave from 1.6 to 30 MHz continuously. 40 randomly programmable memory presets allow for quick access to favorite stations. The multi-function LCD display shows simultaneous display of time, frequency, band, automatic turn-on and sleep timer. A full feature clock, alarm and timer shows time in 24 hour format and even has a sleep timer programmable in 15 minute increments. Receiver performance is where this one really shines however. It features sensitivity and selectivity that no other receiver in this price range can match. Get what everyone's been talking about- the new YB-400!

LIMITED QUANTITIES

SANGEAN ATS-606 (P)

$149

Sangean's smallest radio yet measures only 6" x 3" x 1", yet has more features than any other in the line. These features include ATS (auto tuning system) which will automatically scan and select presets based on station signal strength. Other features include complete 1 to 30 MHz digital shortwave coverage plus AM, FM stereo and LW, 5 tuning methods, dual time display, dual alarm timer and adjustable sleep timer. The 606P version comes complete with ANT-60 portable shortwave antenna and 100/240 VAC worldwide travel adapter. Uses 3 AA batteries or adapter. Both versions come complete with carrying pouch and stereo headphones.
Frequency • 153-29995 kHz, FM 87.5-108 MHz (continuous)
Batteries • Three 1.5 VDC "AA" size
Accessories • Shortwave Handbook

SONY ICF-SW10

WORLD BAND RECEIVER

$59.95

For the first time in shortwave history, a shortwave radio is available for under $60 that actually works! When we first received this radio for evaluation, we assumed it would be like every other radio in its class and offer mediocre at best performance. We were pleasantly shocked when we discovered it offered outstanding selectivity and sensitivity. This radio is great as a travel radio, a starter radio, gift, or just for people that prefer an analog dial. Covers 9 shortwave bands, FM STEREO, and AM broadcast. Requires 2 "AA" batteries.
Frequency Range • FM: 87.6-108 MHz; MW: 530-1602 kHz; SW: 4.750-21.750 MHz; LW: 153-279 kHz
Supplied Accessories • Shortwave Guide Book

ONE STOP SHOPPING!

TUCKER ELECTRONICS CONTINUALLY STRIVES TO BRING OUR CUSTOMERS THE BEST EQUIPMENT AT THE BEST PRICES! NOT ONLY DO WE CARRY AN EXTENSIVE LINE OF RADIOS, TEST EQUIPMENT AND HOBBYIST TOOLS, WE ALSO HAVE A COMPLETE INVENTORY OF ACCESSORIES, BOOKS AND MAGAZINES...THE FULL LINE OF ARRL BOOKS AND THOSE HARD TO FIND BOOKS AND ACCESSORIES ARE AVAILABLE NOW! GIVE US A CALL FOR MORE DETAILS.

MFJ-8100K

SHORTWAVE REGENERATIVE RECEIVER KIT

$59.95

Remember hunching over your regenerative receiver for hours with a pair of phones pressing uncomfortably against your ears? You could hear just about anything that fancy superhets could hear. Sure, you had to play around with the regeneration control just right and have a steady hand to tune but you could hear them. Wouldn't you like to relive some of this fun and excitement of your youth–share some of it with your kids and grandkids? Well you can–with the MFJ-8100K World Band Shortwave Radio Kit. Spend a fun evening with your child or grandchild and help him put this simple kit together. When you're finished listen to international shortwave broadcasts, hams on SSB and CW, WWV, RTTY and much more. Covers all or part of 75/80, 49, 40, 31, 20, 25, 22, 19, 17, 16, 15 and 13 meters in five bands. It has vernier reduction drive, bandswitch, volume and RF gain controls, uses a 9 V battery and is built into a rugged aluminum cabinet. Two earphone jacks allows two people to listen at the same time! 7 x 6 x 2 .5".

SONY ICF-SW30

WORLD BAND RECEIVER

$99

This new compact receiver from Sony features coverage of 10 shortwave bands as well as AM broadcast and FM stereo. You get expensive features such as digital tuning, 15 memory presets and 1 kHz tuning steps for a low price. A dual-function (world and local time display) alarm clock and sleep timers are also included. This one is great as a travel radio or as an introduction to shortwave listening. Measures 6.75" x 4.375" x .9375". Uses 3 "AA" batteries or optional AC adapter.
Frequency Range • FM: (Wide) 76.0-108 MHz;
AM: 530-1710 kHz;
SW: 3700-21950 kHz
Inputs • DC-In, 4.5 V
Supplied Accessories • Shortwave Guide Book

SONY

Authorized Dealer

SONY AN-102

LW/SW/MW COMPACT ACTIVE ANTENNA

$79

The AN-102 is the perfect indoor antenna for use with your Sony World-Band receiver. This compact-sized antenna works with or without an external antenna jack and even has a power auto function after 120 minutes. Comes complete with carrying case and control unit.

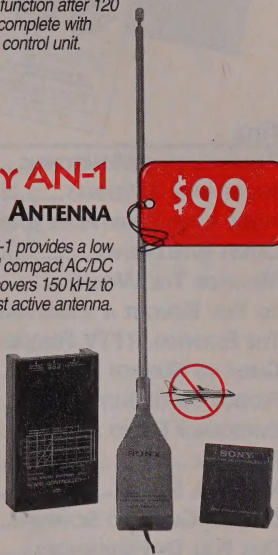
Items with this logo, due to oversize or overweight, are shipped via surface transport.

SONY AN-1

LW/SW/MW WIDE-RANGE ANTENNA

$99

For those that want a larger antenna, the AN-1 provides a low noise/wide dynamic range FET RF amplifier and compact AC/DC operation. It is waterproof for outdoor use and covers 150 kHz to 30 MHz. Sony's best active antenna.



MFJ

MFJ-1024

SWL OUTDOOR ANTENNA

$129.95

This is the antenna called "first rate easy-to-operate" and "an excellent choice" by the WORLD RADIO TV HANDBOOK. Covers 50 kHz to 30 MHz. Receives strong, clear signals. 20 dB attenuator, gain control, ON LED. Switch selects two receivers and auxiliary or active antenna. Control unit is 6" x 3" x 5". Remote unit has 54 inch whip, 50 feet of coax and connector. 3 x 2 x 4 inches. 12 VDC or 110 VAC with adapter.

BEST SELLER!

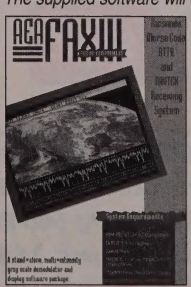
AEA

AEA FAX III

MULTI-MODE RECEIVING SYSTEM

$99

With the new AEA-FAX III, receiving WEFAX images and wire photos, morse code, RTTY and NAVTEX transmissions couldn't be easier. Simply plug in the supplied interface to your PC compatible computer's serial port, connect the other end to any HF receiver's headphone or speaker output and go! The supplied software will display up to 16 levels of gray with a VGA monitor and even allow you to keep a fax-station database to keep a log of stations heard. It supports com ports 1-4 and will even allow you to use a serial device on the same port! The New AEA-FAX III features include 256-color enhancement which can help you decipher more information from your images; and Virtual Control modules which control your computer controllable receiver allowing unattended capture of fax or wire photos on different frequencies (Requires Lowe or Icom receivers). Start seeing what you've been missing- order an AEA-FAX III today!



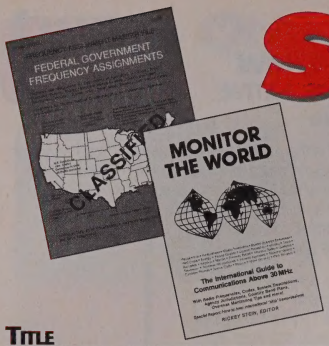
MFJ-959B

SWL PRE-AMP/TUNER

$89.95

Don't miss rare DX due to signal power loss between your receiver and antenna. The MFJ-959B provides proper impedance matching so you transfer maximum signal from antenna to receiver. Covers 1.6 to 30 MHZ. 20 dB preamp with gain control boosts weak stations. 20 dB attenuator prevents overload. Select from 2 antennas, 2 receivers. Uses 9 to 18 VDC or AC adapter. 9" x 2" x 6"

OVERSTOCKED SHORTWAVE SALE



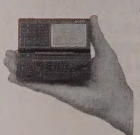
S·A·L·E

GREAT BUYS ON SCANNER BOOKS!

TITLE	ORDER NUMBER	WAS	NOW
RADIOTELETYPE MONITORING	BOK90	$9.95	$7.95
SHORTWAVE ANTENNAS	BOK162	$16.95	$12.95
INSIDE YOUR SHORTWAVE RADIO	BOK6	$10.95	$7.95
LATEST INTELLIGENCE	BOK15	$16.95	$14.95
MONITOR THE WORLD	BOK187	$24.95	$17.95
SO YOU BOUGHT A SHORTWAVE RADIO	BOK8	$6.95	$4.95
THE ESSENTIAL RTTY FREQUENCY LIST	BOK87	$6.95	$4.95
GUIDE TO NUMBER STATIONS	BOK9	$13.95	$9.95
FEDERAL FREQUENCY FILE	BOK14	$24.95	$17.95
EMERGENCY RADIO	BOK 188	$12.95	$7.95
FIRE CALL	BOK 111	$17.95	$12.95
NATIONAL SPORTS	BOK 186	$13.95	$9.95
CITIZENS GUIDE TO SCANNING	BOK 84	$19.95	$12.95
DISK FULL OF FREQUENCIES	BOK108	$15.95	$10.95

QUANTITIES ARE LIMITED ON ALL ITEMS ON THIS PAGE . . . HURRY FOR BEST SELECTION!

SHORTWAVE RECEIVERS SALE!

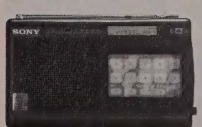


SONY ICF-SW100S
WORLD BAND RECEIVER

Ultimate Travel Radio...smallest radio available that features synchronous detection

WAS...$349

NOW $299



SONY ICF-SW800
WORLD BAND RECEIVER

Shortwave portable with preset tuning - very easy to use.

WAS...$129

NOW $79.95

DATONG FL-3
DELUXE AUDIO FILTER *WAS...$299*

The Model FL-3 connects in series with the speaker lead from the receiver.

NOW $259

ORDER NO.	DESCRIPTION	WAS	NOW
MFJ1022	PORTABLE .3-200MHZ ACTIVE ANTENNA - GREAT FOR APARTMENTS!	$37.95	$29.95
SAIATS606	DIGITAL SHORWAVE PORTABLE, 1-30MHZ COVERAGE, FULL FEATURED	$139.00	$129.95
SAIATS606P	...ALL THE GREAT FEATURES AS 606 PLUS WORLDWIDE ADAPTER	$169.00	$149.95
SAIATS800	DIGITAL SHORTWAVE PORTABLE, 15 BANDS, 20 MEMORIES	$89.00	$69.95

Scanner Comparison Chart

Model	Price	Frequency Coverage (Less Cellular)	Modes	Memory	Scan Rate (Ch./Sec.)	Banks	Computer Interface	Accessories Included
AOR AR-3000A	$1,049.00	100kHz-824MHz 849-869MHz 894-2036MHz	AM/NFM WFM/LSB USB/CW	400 CH.	50	4	YES	Tele. whip AC Adapt. DC Adapt.
AOR AR-8000	$599.00	500kHZ-1900MHz	AM/NFM WFM/LSB USB/CW	1000 CH.	30	20	OPTIONAL	Whip Ant. AC Adapt. DC Adapt. Cig. lighter cord
ICOM IC-R1	$409.00	100kHz-800MHz 900-1300MHz	AM/NFM/WFM	100 CH.	20		NO	Flex Ant. AC Adapt Charger Belt Clip
ICOM IC-R100	$649.00	100kHz-800MHz 900-1856MHz	AM/NFM/WFM	100 CH.	20		NO	VHF/UHF Tele. Ant. HF Wire Ant./DC Power Cable Mounting Bracket Fuses, Speaker Plug, Cable tie/screws
ICOM IC-R7100-2	$1,449.00	25-800MHz 900-2000MHz	AM/NFM/WFM/ LSB/USB/CW	900 CH.	12	9	OPTIONAL	Plugs/Fuses DC Cord
UNIDEN BC-230XLT	$249.00	29-54MHz 108-174MHz 406-512MHz 806-956MHz	AM/NFM/WFM/ LSB/USB/CW	200 CH.	100	10	NO	AC Adaptor Flex Antenna, Belt Clip Earphone
UNIDEN BC-890XLT	$275.00	29-54MHz 108-174MHz 216-512MHz 806-956MHz	AM/NFM	200 CH	100/20	10	NO	AC Adaptor Tele. Whip
UNIDEN BC-3000XLT	$399.00	25-550MHz 760-1300MHz	AM/NFM	400 CH.	100	20	NO	Earphone Ac Adaptor, Belt Clip, Flex Ant., Rechargeable Battery Pack
UNIDEN BC-9000XLT	$399.00	25-550MHz 760-1300MHz	AM/NFM/WFM	500 CH.	100	20	NO	AC Adaptor Tele. Whip
UNIDEN SC-150Y/B	$199.00	29-54MHz 108-174MHz 806-956MHz 406-512MHz	AM/NFM/WFM	100 CH.	100	10	NO	AC Adaptor Flex Ant. Belt Clip Earphone

To Order Call Toll Free: 800•559•7388 • 24 Hour Fax Line: 214•340•5460

1717 Reserve Street • Garland, Texas 75042 • P. O. Box 551419 • Dallas, Texas 75355-1419

Shortwave Comparison Chart

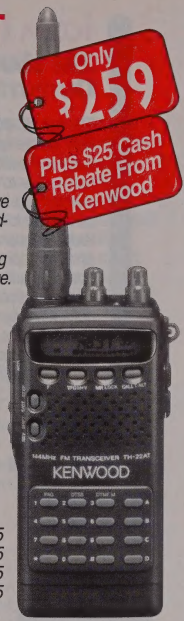
Model	Price	Frequency Coverage	Tuning Steps	Modes	Memory	Computer Interface	Antenna Connector	Accessories Included
Grundig Satellit 700	$499.00	AM, 1.6-30MHz, FM 100Hz SSB 25KHz FM	1kHz AM	AM/FM/SSB	120 PRESET 512 PROG.	NO	PAL (SUPPLIED)	COAX CONN. AC ADAPTOR
Grundig YB-305	$149.00	AM, .16-30MHz, FM	1/5kHz	AM/SSB/FM	30	NO	1/8"	2"C" CELLS SW GUIDE
Grundig YB-400	$199.00	AM, .16-30MHz, FM	1/5kHz	AM/FM	40	NO	1/8"	REEL ANT. CASE SW GUIDE
ICOM IC-R71A	$1,299.00	.1-30MHz	1Hz. MINIMUM	AM/FM/SSB/ CW	32	OPTIONAL	SO-239	SPARE FUSES
Sangean ATS-818CS	$219.00	AM, .15-30MHz, FM	1kHz	AM/FM/SSB/ CW	45	NO	RCA PHONO	AC ADAPTOR EXT. ANT. ADAPT SW GUIDE
Sony ICF-SW77	$449.00	AM, .15-29MHz, FM	50Hz/1kHz	AM/SSB/FM	162	NO	1/8"	STEREO EARPHONES AC ADAPTOR CARRYING BELT SW GUIDE
Sony ICF-SW100S	$349.00	AM, .15-30MHz, FM	1kHz SW 9/10kHz MW 50kHz FM	AM/SSB/FM	50	NO	1/8"	STEREO EARPHONES SOFT POUCH AC ADAPTOR CARRYING BELT SW GUIDE
Sony ICF-2010	$359.00	AM, .15-30MHz, FM	100Hz	AM/SSB/FM	32	NO	1/8"	EARPHONE WIRE ANT. AC ADAPTOR CARRYING BELT SW GUIDE
Sony ICF-SW7600G	$199.00	AM, .15-29MHz, FM	1kHz	AM/SSB/FM	22	NO	1/8"	CARRY CASE REEL ANT.
W-J HF-1000	$3,799.00	.005-30MHz.	1Hz	AM/FM/USB/ LSB/ISB	100	YES	BNC	NONE

KENWOOD TH-22AT

2M HANDHELD TRANSCEIVER

Only $259

Plus $25 Cash Rebate From Kenwood



Meet the latest in transceiver technology, tailored for utmost efficiency in a palm-size format: Kenwood's TH-22AT (144 MHz). So small and slim, it easily slips into a shirt pocket. Yet this super compact FM transceiver delivers impressive performance, thanks to the MOSFET power module- a world-first in this class- which enables low-voltage operation while enhancing reliability. Long hours of operation are possible on just one charge. Other features include a built-in DTMF keypad, easy-to-use menu system, multiple scan functions, and 40 memory channels (plus 1 call channel). Options include a CTCSS decoder and a rapid charger.

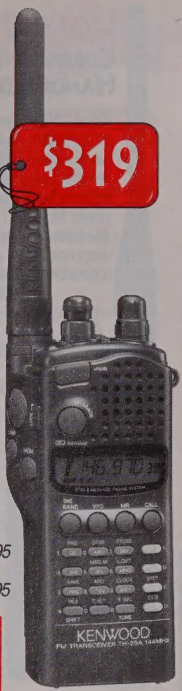
Popular Accessories:

PB-32 Standard Battery Pack (6 V/600 mAH) $66.95
PB-33 Longlife Battery Pack (6 V/1200 mAH) $89.95
PB-34 Longlife Battery Pack-5 W (9.6 V/600 mAH) $89.95
BT-9 "AA" Battery Case $29.95
SC-37 Soft Case for PB-32 ..... $24.95
SC-39 Soft Case for PB-33 & PB-34 ..... $24.95
PG-3H Filtered Cigar Lighter Cord $36.95
SMC-34 Speaker Mic with 3 function keys and volume control $67.95
TSU-8 CTCSS Decoder Unit $59.95

KENWOOD TH-28A

2M HANDHELD TRANSCEIVER

$319



Innovative and impressive. Among its sophisticated features are DTSS and pager functions, a switchable dual-band receive capability, and support for full-duplex cross-band operations! Other features include: Alphanumeric Memory, Alpha-numeric Message Paging, 40 Multi-Function Memory Channels + 1 Call Channel- Up To 240 memory channels are capable with the optional ME-1 memory unit & 10 Autodial Memories, Multi-scan function, auto repeater offset, built-in CTCSS operation, 4 position output power control, air band receive, clone function and MARS/CAP capability.

Popular Accessories:

PB-13 7.2 V/700 mAH battery $67.95
PB-18 7.2 V/1100 mAH battery $86.95
PB-17 12 V(5 W)/700 mAH battery $99.95
BT-8 "AA" Battery Case $29.95
PG-3H Filtered Cigar lighter cable $36.95
SC-33 Soft Case for PB-13/BT-8 ..... $24.95
SC-34 Soft Case for PB-17/18 ..... $24.95
SMC-34 Speaker/Mic with 3 function keys and volume control $67.95

TH 79ADH-5W VERSION
Plus $40 Cash Rebate From Kenwood
ONLY $489

Only $459

Plus $40 Cash Rebate From Kenwood

KENWOOD TH-79AD

DUAL BAND HT (2M/440 MHz)

It's the perfect balance: Kenwood's new TH-79AD handheld transceiver offers the optimum combination of operating ease and powerful performance in a compact, lightweight design. This slim-line FM dual bander sports a dot-matrix LCD-the first in its class-providing alphanumeric access to a unique guide function as well as a user-friendly menu system. Other features include 82 non-volatile memory channels with ID, DTSS and page functions, and a DTMF memory function for autodial operation. Thanks to the FET power module, long hours of operation are possible on one charge.

Popular Accessories:

PB-32 Standard NiCad Battery(6V/600mAH) $66.95
PB-33 Long-Life NiCad Battery 6V/1200mAH) $89.95
PB-34 High Power NiCad Battery-5W (9.6V/600mAH) $89.95
BT-9 "AA" Battery Case $29.95
KSC-14 Rapid Charger $84.95
PG-3H Filtered Cigarette Lighter Cord $36.95
SMC-34 Speaker mic w/3 function keys and volume control $67.95
SC-41 Soft case for PB-32 ..... $24.95
SC-43 Soft case for PB-33/34 ..... $24.95

Due to fluctuating dollar/yen values, all Kenwood, Icom, & Alinco radios are subject to price changes. Call before ordering.

THE PERFECT MATCH FOR YOUR HT!

ZURICH 12V/3A POWER SUPPLY

Operate your handheld as a base station. This great little regulated power supply will power any HT we sell to the full 5 W output power easily and cleanly. With lighted power switch, banana posts for connecting. The 12 V is clean enough to allow straight operation to your HT- no filtered cord needed. Makes a great gift for any ham.

$29.95

Also available:...12V/7A Power Supply...$49.95

ICOM IC-W31A
COMPACT DUAL-BAND HANDHELD

$419

This IC-W31A measures only 2.2 inches wide by 4.9 inches high by 1.2 inches deep, and fits comfortably in your hand, and can be easily carried in your shirt pocket. It is able to display 104 memories (frequency or alpha name). Up to six alphanumeric characters can be programmed for quick and easy identification. A power MOS-FET module provides high power output even under low battery voltage. The Icom IC-W31A has large, backlit keys for easy operation. Additional features include full crossband duplex operation, 3 levels of power output (incl. economical low).

Frequency coverage : TX: VHF 144-148 UHF 440-450; RX: VHF136-174 UHF 400-470
Mode : FM
Number of memory channels : 100
Dial select steps : 100 kHz or 1 MHz
Current drain (at 13.5 VDC, typical values) :TX: High VHF(1.3 A) UHF(1.5 A) Low VHF(500 mA) UHF(600 mA)
Dimensions : 57 (W) x 125 (H) x 31 (D)
Weight : 340 g/12.0 oz

Popular Accessories:

BP-170: "AA" Battery Case $28
BP-172: 4.8 V/700 mAH Battery..... $73
BP-173: 9.6 V/650 mAH Battery (5W)..... $120
LC-128: Carrying Case for All Batteries $30
CP-12: Cigarette Lighter Cable w/Noise Filter $29

Due to fluctuating dollar/yen values, all Kenwood, Icom, & Alinco radios are subject to price changes. Call before ordering.

ICOM IC-2GXATHP
2M HANDHELD-7W OUTPUT

$299

The new IC-2GXAT offers surprisingly simple operation with the features and performance amateurs have come to expect from Icom products. 7 W of output power make hitting those repeaters a breeze. The display can be set to indicate memory channel numbers only. This keeps frequencies secret, restricts operating frequencies or simplifies operation for an unfamiliar user. The auto repeater operation automatically activates the correct duplex direction when the receiver frequency tuned is within the repeater output frequency range. 40 memory channels, 5 DTMF auto dial memories, power saver features and a die-cast aluminum rear case with a splash-resistant body round out this outstanding new offering.

Popular Accessories:

BP-132A: 12.0 V/600 mAH Battery..... $120
BP-130A: "AA" Battery Pack $28

Carrying Cases

LC-116: For IC-2GXAT w/BP-130A/157A/160..... $30
LC-117: For IC-2GXAT w/BP-132A $30
UT-49: DTMF Decoder Unit $59
BC-79A: Rapid Charger (requires AD-28 adapter $12)..... $159
CP-13/L: Cigarette Lighter Cable w/Noise Filter..... $32
HS-51: Headset..... $77

ICOM IC-T21A $299
Deluxe 2M HT with 440MHz Receive

ICOM IC-Δ1A
TRI-BAND HT

$699

The IC-Δ1A is the first tri-band handheld in the amateur world! 2m, 440 MHz and 1296 MHz are included in one compact body. All 3 bands can be received simultaneously and controlled independently by 3 volume controls and 3 main dials. Full cross-band double duplex operation is now possible! Great standard features like 78 memories, built in DTMF encoder/decoder, programmable automatic power-off and many more make this the best of the best in handhelds.

Popular Accessories:

BP-103 12 V/600 mAH Battery..... $121
CP-13 Cigarette Lighter Cable w/noise Filter..... $32
LC-81 Carrying Case for Radio + BP-100/101/102..... $28
LC-82 Carrying Case for Radio + BP-103..... $28
BC-79A Rapid Charger (requires AD-27 adapter $12)..... $159

ICOM IC-T22A
144 MHz FM TRANSCEIVER

NEW!

$239

The IC-T22A is a mono band handheld packed with features you would expect to find in a hand-held twice it's size. From alphanumeric display to the new microphone simple remote control function this handheld utilizes the latest in Icom technology. And it looks great too! Small in size (only 2.25"W x 4.8125"H x 1.125"D!) yet big in performance the IC-T22A offers alphanumeric memory channels, alphanumeric message pager, and more! Experience new technology, order your IC-T22A today!

Popular Accessories:

BP-172 4.8 V/950 mAH Battery (1.5 W/8 HR)..... $73
BP-173 7.2 V/600 mAH Battery (5 W/3 HR 20M)..... $120
BP-170 AA Battery Case..... $28
LC-125 Carrying Case BP-170/171/172..... $30
LC-126 Carrying Case BP-173..... $30
CP-12L Cig. Lighter Cable w/Noise Filter..... $29
HM-75A Speaker MIC w/Remote Control..... $75
MB-30 Mobile Mounting Bracket..... $30

ALINCO DJ-582T

VHF/UHF FM TWINBAND HANDHELD TRANSCEIVER

$349

The DJ-582T has been named "The Performer" and for good reason. This compact transceiver, with its industry leading ergonomic design, excellent audio and sensitivity, is packed with expanded features offering you non-stop performance. The Alinco DJ-582T comes standard with Airband Receive, accelerated scanning speed, expanded UHF frequencies, and many additional features. Order your DJ-582T today and start experiencing "The Performer"!

Accessories:

EBP-26N 7.2 V/700 mA Battery $41
EBP-28N 12 V/700 mA Battery $68
EDH-11 "AA" Battery Case $10
ESC-17 Carrying Case for EBP-26N/EDH-11 ..... $14
ESC-26 Carrying Case for EBP-28N ... $14
EDC-36 Filtered Cigarette Lighter Cable $21

Due to fluctuating dollar/yen values, all Kenwood, Icom, & Alinco radios are subject to price changes. Call before ordering.

ALINCO DJ-G5TY

2M/70CM TWIN BAND HANDHELD TRANSCEIVER

NEW!

$389

Compact size, easy operation, high performance, and full featured! Major function keys are laid out within reach of your thumb for quick operation. Offers the following features:

- *PTT Key: Push-to-talk switch*
- *Additional PTT Key: Switchable to either low power output, tone-burst, or sub-band PTT*
- *SRCH (Search) Key: Turns on/off the Channel Scope*
- *MONI (Monitor) Key: Unmutes the squelch to monitor activity*
- *Volume Key: Increases/decreases speaker volume*
- *Squelch key: Adjusts squelch level*
- *Main Tuning Dial*
- *Large Sized Speaker*
- *Band Key: Select VHF or UHF band for either side of the display. A/B VFO's are also built-in for both sides. Wideband coverage + Airband Rx.*
- *PS (Program Scan) Keys: Three programmed scan ranges can be preset*
- *D.C. In Jack*
- *T SQL (Tone Squelch) Key: Both the tone encoder and decoder (50 tones) are built-in as standard*
- *MR (Memory Recall) Key: Has a 100 memory capacity for each side, and does not require a memory back-up battery*
- *DSQ (DTMF Squelch) Key: DTMF encoder and decoder for DSQ come standard*
- *Back Lit Keypad: Both the LCD and keypad are illuminated for your convenience*

ALINCO DJ-G1T

2M HANDHELD

$249

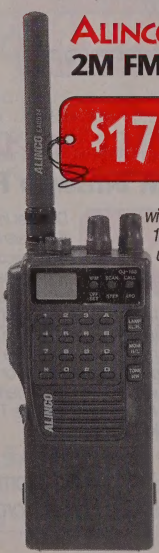
This new handheld from Alinco features the unique Channel Scope that shows the signal strengths of 7 frequencies simultaneously! You can monitor either VFO frequencies or keep track of local repeater frequencies in memory. This is Alinco's most advanced handheld with 2m wide (108 to 174 MHz) and 440 MHz dual receive coverage. 80 memory channels come standard with 39 CTCSS tones, DTMF squelch, 2 types of priority watch, 6 scan types, illuminated keypad and an on air/busy lamp. The DJ-G1T takes you into a new age of 2m operation!

Accessories:

EBP-30N 7.2 V/700 mAH Battery $50
EBP-31N 7.2 V/1200 mAH Battery $79
EBP-32N 12 V/722 mAH Battery $95
EDH-14 "AA" Battery Pack $15
EDC-52 Quick Charger $119
EMS-8Z Speaker/Mic w/Remote Control $48
ESC-23 Soft Case For DJ-G1T w/EBP-30N $16
ESC-24 Soft Case For DJ-G1T w/EBP-31N/32N $21
EDC-36 Filtered Cigarette Lighter Cord $21

ALINCO DJ-180T

2M FM HANDHELD TRANSCEIVER



$179

The new DJ-180T is simple to operate and built to last. It has a huge array of features that are easy to learn and use with the intelligently-laid out keypad. It transmits on the entire 144 to 148 MHz 2m band and receives from 130 to 174 MHz. It provides 2 W of power output (5 W with optional 12.0 V battery). It's LCD display is lighted and 10 memories are at your disposal (up to 200 available with upgrades). Measures 5.2" x 2.3" x 1.3".

Alinco DJ-180TH
(With Built-In 12 V Battery For 5 W) Only $199

Accessories:

ESC 19 Carrying case $18
EBP-22N 12.0 V / 700 mAh battery $70
EDH-12 DC Jack Adapter $10
EJ-15U 200 Ch. Memory Unit $29

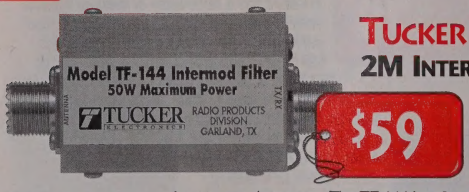
INTRODUCING... BATTERY TECH BATTERIES

These US manufactured batteries offer original manufacturer performance at a significant savings over the radio manufacturer's battery. These batteries are physically identical to the batteries they replace and come with a full one-year warranty. Order by the Manufacturer's battery they replace:

BATTERY TECH #	PRICE	REPLACES:
EBP-20N 7.2V/800mAH	$49.00	ALINCO DJ-180/580/582
EBP-20Nx 7.2V/1500mAH	$44.00	ALINCO DJ-180/580/582
EBP-22N 12V/800mAH	$49.00	ALINCO DJ-180/580/582
PB-13 7.2V/800mAH	$39.00	KENWOOD TH-28/48/79AD
PB-18 7.2V/1500mAH	$47.00	KENWOOD TH-28/48/79AD
PB-14 12V/800mAH	$49.00	KENWOOD TH-28/48/79AD
PB-32 6V/600mAH	$44.00	KENWOOD TH-22/42AT/79AD/A
PB-33 6V/1200mAH	$48.00	KENWOOD TH-22/42AT/79AD/A
PB-34 9.6V/600mAH	$52.00	KENWOOD TH-22/42AT/79AD/A
BP-83A 7.2V/800mAH	$37.95	ICOM IC-2/3/4SAT, 24AT, 2SRA,R-1
BP-84 7.2V/1200mAH	$39.00	ICOM IC-2/3/4SAT, 24AT, 2SRA, R-1
BP-157 7.2V/900mAH	$47.00	ICOM IC-W21A/W21AT
BP-131 7.2V/900mAH*	$39.95	ICOM IC-W21A/W21AT
BP-157(S) 7.2V/1500mAH	$54.00	ICOM IC-W21A/W21AT
BP-132 12V/600mAH*	$49.95	ICOM IC-W21A/W21AT
BP-157A 7.2V/900mAH*	$39.95	ICOM IC-2GXAT/4GXAT
BP-157A(S) 7.2V/1500mAH*	$59.00	ICOM IC-2GXAT/4GXAT
BP-132A 12V/600mAH*	$59.00	ICOM IC-2GXAT/4GXAT

* Batteries With Microphones

Note: (S) Batteries are too large to fit in Icom carrying cases



TUCKER TF-144
2M INTERMOD FILTER

$59

Don't let intermod ruin your hamming! If you are like most of us, your 2m radio becomes filled with the squawks and beeps of intermodulation distortion or "intermod" whenever you get close to an urban area. The TF-144 is a 3 pole filter that'll end your intermod problems forever. It automatically switches on during receive and attenuates out-of-band signals by as much as 50 dB or more! Simply install the TF-144 in-line between your antenna and the antenna input of your mobile rig or handheld and hook up the attached wire to +12 VDC (it draws only minimum current)...its that easy. Our exclusive SatisfactionPlus Guarantee means you will be more than satisfied with the TF-144's performance- if not, simply send it back within 30 days- NO QUESTIONS ASKED!

Tucker SatisfactionPlus 30-Days - No Questions Asked Guarantee

Due to fluctuating dollar/yen values, all Kenwood, Icom, & Alinco radios are subject to price changes. Call before ordering.

COMET HM-P2

$32.95

MINI SPEAKER/ MICROPHONE

- *Ultra-light weight*
- *Mini-size*
- *High power*
- *Condenser mic provides clear TX audio*
- *Rear clip for collar tie, etc.*

HM-P2K • For Kenwood
HM-P2F • For Yaesu/Icom/Standard/ Alinco/etc

DAIWA MH200

LIGHT-WEIGHT HEADSET W/PTT SWITCH

$39

The MH200 is a very lightweight "personal stereo" type headset with single earpiece and attached, flexible boom mic for many amateur and commercial HT's. An in-line momentary or locking type PTT switch is complete with handy attachment spring clip. The molded on connectors (one for PTT/Audio and one for Headset Audio) are compatible with Icom and Yaesu. The single ear piece conforms to many state mobile headset use laws while the high quality boom mic element provides excellent audio transmission. A quality alternative to the Icom HS-51 or Yaesu headsets.

DAIWA

DUAL BAND ANTENNAS

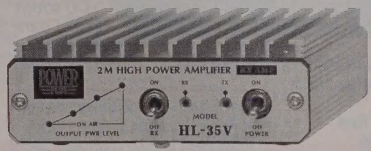
Manufacturer & Model #	Gain	Frequency	Length	Price
Premier RD-78	2.15 dB & 3.2 dB	2M/440	15"	$23.95
Premier RD-8	N/A	2M/440	6 .5"	$19.95
Comet CH-72S	0/3.2 dBi	2M/440	15"	$32.95
Comet SH-55	1.5 dBi & 3.2 dBi	2M/440	15.5"	$32.95
Comet CH-32 (Miracle Baby)	0 dBi	2M/440	1.75"	$33.95
Premier AL-800	3 dB & 5.2 dB	2M/440	31"	$37.00
Comet CH-720C	0/3.8 dBi	2M/440	18"	$37.95
Comet CH-722SA	3.0 dBi & 5.5 dBi	2M/440	35.5"	$49.95

BEST SELLER! NOW ALL MODE

POWER PLUS HL-35V

35W 2M LINEAR AMPLIFIER

$99



Tucker breaks the $100 price barrier with this quality amp! You get 35 W out with 5 watts in and only .5 W is needed to drive it to lower output. You even get a 13 dB GaAsFET receive preamp. We have tested this amp and it has first-class construction using strip-line techniques. This technique coupled with modular construction provides unsurpassed reliability and RF performance. 1 year warranty. Get yours today while supplies last!

- *Frequency Range: 144-148 MHz*
- *Mode: FM*
- *RF Input: 0.5-5 Watts*
- *RF Output: 20-35 Watts*
- *Dimensions: 100 (W) x 170 (L) x 33 (D) mm*
- *Connectors: UHF (SO-239)*
- *Power Requirements: 13.6 VDC @ 4 Amps*

COMET CH-32

MIRACLE BABY 146/446 MHz HT ANTENNA

$33.95

Compact Design, the Smallest HT Antenna Available!

- *Gain & Wave: 0 dBi 1/4 wave*
- *Max Power: 10 W*
- *Length: 1.75"*
- *Connector: BNC*

$19.95

PREMIER RD-8

DUAL BAND ANTENNA

If you need a replacement for your original antenna, this is a good choice. Dual Band 2m/70cm, also receives on the 800 and 900 MHz bands. It's 6 .5" in length and comes with a gold BNC connector. This antenna will out perform any 1/4 wave rubber duck on the market today! You will hit repeaters you never hit before, also works well with scanners.

PREMIER RD8

PREMIER PORTABLE POWER PACKS

PREMIER SB-152 (6.5AH)

$59

PREMIER SB-752 (8.5AH)

$69

These portable power packs supply 12 V, 9 V, 6 V and 3 V selectable from the front-panel. They are loaded with features including easy-to-read voltage meter, AC adapter, power lamp, and handle for easy transportation. Output is via (+/-) terminals or a 12 V cigarette socket. Charging is only 3 hrs from 12 V sources (while driving with included cigar lighter cord) or 8 hrs with the included AC adapter. Great for not only taking your HT on the road, but also camcorders, portable TVs, cellular telephones etc. Hundreds of satisfied customers can't be wrong!

Items with this logo, due to oversize or overweight, are shipped via surface transport.

KENWOOD SINGLE-BAND MOBILES

TM-241A 2M MOBILE... $339

TM-331A 220 MHz MOBILE... $489

TM-441A 440 MHz MOBILE... $489

Plus $65 Rebate Direct From Kenwood

Kenwood's new single band mobiles bring Kenwood quality and features to your car. They each feature 20 memory channels that store all settings plus one call channel, multiple scan capability, a selectable CTCSS tone encoder, automatic repeater shift and power off and an easily read amber LCD screen. Comes complete with DC power cord, mounting bracket and a full function DTMF hand mic that also has up/down and function buttons.

KQT-8 CTCSS Tone Decoder...$46.95

Due to fluctuating dollar/yen values, all Kenwood, Icom, & Alinco radios are subject to price changes. Call before ordering.

KENWOOD MULTI-BAND FM MOBILES

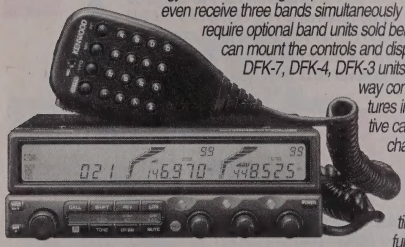
TM-942A (2M/440 MHz/1200 MHz) $1099

TM-742A (144/440 MHz) $719

Plus $50 Rebate Direct From Kenwood

TM-642A (2M/220 MHz)..... $799

Kenwood's distinctive TM-942A, TM-742A, and TM-642A are high-performance FM multibanders that demonstrate the very best in mobile transceiver technology. Besides offering a triple receive and display capability, they can even receive three bands simultaneously (the TM-742A and TM-642A require optional band units sold below). And with all three you can mount the controls and display separately (optional DFK-7, DFK-4, DFK-3 units sold below) for unique 3-way convenience. Other great features include built-in DTSS selective calling with page, 101 memory channels and memory bank system, flexible scan and scan stop modes, tone alert system with elapsed time indicator, triple repeater functions, selectable frequency steps, S-meter squelch, optional CTCSS unit, direct frequency entry with multi-function microphone and much, much more.



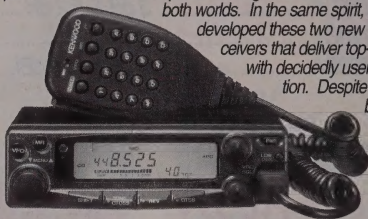
Optional Accessories:

UT-1200 1200 MHz FM Unit (for TM-642A/742A).....$389
UT-440S 440 MHz FM Unit (for TM-642A/742A).....$319
UT-220S 220 MHz FM Unit (for TM-642A/742A).....$319
UT-50S 50 MHz FM Unit (for TM-642A/742A).....$319
TSU-7 CTCSS Unit.....$59.95
DFK-7 7m Detachable Front-Panel Kit- Trunk Mounting.....$89.95
DFK-4 4m Detachable Front-Panel Kit- Under Seat.....$59.95

KENWOOD DELUXE SINGLE BAND MOBILES W/9600BPS PACKET CAPABILITY

TM-251A 2M MOBILE $449

TM-451A 440 MHz MOBILE $499



Advanced automotive engineering has created cars that combine high performance with both improved driving ease and comfort- the best of both worlds. In the same spirit, Kenwood has developed these two new mobile transceivers that deliver top-flight features with decidedly user-friendly operation. Despite being single-banders, each unit has a dual-band receive capability, allowing full-duplex cross-band communications. What's more you get 41 memory channels (expandable to 200 with the ME-1), Dual-Tone Squelch System (DTSS) with page, a dual-menu system, microphone with 16-key numeric keypad, digital recording system, and an S-meter squelch. All of this, plus both units are fully compatible with both 1200 and 9600BPS packet. The foremost single-band transceivers.

ME-1 Memory Expansion Unit.....$39.95
TSU-8 CTCSS Decoder Unit.....$59.95

KENWOOD

Plus $85 Rebate Direct From Kenwood

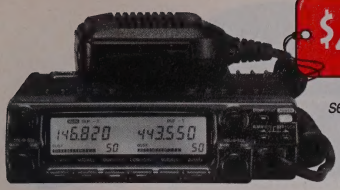
KENWOOD TM-733A DUAL BAND (2M/440 MHz) MOBILE

$629

Kenwood's sleek new TM-733A has been crafted specifically for high-performance mobile communications, with a unique "6-in-1" programmable memory that marks a quantum leap in operating ease. But this compact FM dual-band transceiver has a full complement of sophisticated features: dual receive on the same band (VHF+VHF or UHF+UHF), built-in DTSS and page functions, 72 memory channels, and 1200/9600BPS packet compatibility-just to name a few. The detachable front-panel has a high-visibility LCD with key function display to facilitate on-the-move operation. And there's an optional quick-release kit as an added anti-theft measure.

Optional Accessories:

DFK-7B Detachable Front-Panel Kit- Trunk Mounting.....$99.95
DFK-4B Detachable Front-Panel Kit- Under Seat.....$59.95
TSU-8 CTCSS Tone Decoder.....$59.95



$499

ICOM IC-2350H
DUAL BAND FM TRANSCEIVER

Capture those signals with ultra high speed scans. The Icom IC2350H offers seven kinds of scans, 110 channel capacity memory, independent tuning controls and smooth functions access, Improved IMD characteristics, microphone remote control function and much more. Additional features include:

- *Simultaneous receive for both bands*
- *Crossband full duplex capability*
- *Subaudible tone encoder built-in*
- *Auto-repeater function*
- *Pager and code squelch*
- *Pocket-beep and tone squelch*
- *Built-in duplexer*

• Frequency coverage: VHF (Tx: 144-148 MHz; Rx: 118-174 MHz); UHF (440-450 MHz)

ICOM IC-2000H 2M MOBILE

$309

The IC-2000H delivers a powerful 50 watts of output power providing the talk power you need to reach even the most distant repeaters. 10 and 5 watts are also available. Die-cast aluminum construction combined with a large heat sink help ensure that operation is stable even at high duty cycles and its compact size (particularly its shallow depth) make installation a breeze. Features: optional tone squelch and pocket beep functions—provide quiet standby (UT-85 required); optional tone scan—great when you don't know the sub audible tone required to access a repeater (UT-85 required); Remote control microphone—function access at your fingertips; one-push action switches (no [FUNC] switch); Large, easy-to-read function display; SET mode to customize operation; Auto repeater and repeater lockout functions.
UT-85 Tone Squelch Unit...$61

ICOM IC-281H
2M MOBILE WITH 440 MHz RECEIVER

FedEx. Federal Express Shipping Available as low as $7.95!

$399

This rugged new mobile from Icom features 2m transceive and bonus 440 MHz receive coverage allowing full duplex crossband operation between these bands! 60 memories are standard plus 10 scratch pad memories that store your 10 previously transmitted frequencies for instant recall. An optional tone scan feature automatically sets the subaudible tone for easy repeater access while traveling. An optional voice synthesizer announces your operating frequency. The built-in data jack connects a TNC directly to the modulation circuit for packet convenience and 9600BPS capability is standard. 50 W power output, a large display, auto-dialing capability, auto power off and much more round out your best choice in a 2m mobile.
UT-85: Tone Scan Unit.....$61 *UT-66: Voice Synthesizer.....$66*

ICOM

Due to fluctuating dollar/yen values, all Kenwood, Icom, & Alinco radios are subject to price changes. Call before ordering.

ICOM IC-Δ100H
TRIPLE BAND MOBILE (2M/440/1.2 GHz)

$1199

Three independent band units for 2m, 440 MHz and 1.2 GHz operation (simultaneous receive) with three independent displays that display S/RF, volume and squelch levels. Each display is controlled by a separate volume and tuning knob and the audio can be selected from 3 external speaker jacks. Each band has a separate antenna connector to enable duplexer/triplexer use without any mismatching antenna loss. Cross-band double duplex (transmit on one band while receiving on two others) and full cross band duplex is now possible in a mobile! The head can be detached from the front panel and mounted separately. Other great features include 2.4 W of audio power, priority watch, 642 memory channels and much, much more!

ALINCO DR-610

TWINBAND MOBILE TRANSCEIVER

NEW!

$599

The DR610 dual band mobile transceiver equipped with Alinco's "Advanced Channel Scope" utilizes a "Real Time Monitor" on 11 different frequencies simultaneously giving you quick visual scanning capability and the potential for making numerous contacts. Channel scope, U/U, V/V, V/U, U/V, 9600 bps connector, remote control mic, and 120 memories. Frequency: VHF 144 to 147.9 MHz (108 to 173.9 MHz receive); UHF 438 to 449.9 (420 to 470 MHz receive). 50 Ω impedance.

ALINCO DR-130T

HIGH POWER 2M FM MOBILE

$279

The DR130T is a powerful 2-meter mobile boasting 50 watts in high power transmit. Now, reaching those distant repeaters is no problem, and its compact size is ideal for even the tightest mobile installation applications. The DR-130T is loaded with great features like 20 memory channels (expandable to 100 memory channels w/optional EJ-19U memory expansion unit), user programmable transmitter time out timer, CTCSS encoder standard (optional EJ-20U tone squelch unit is also available), priority scan, memory scan & VFO scan, and much, much more.

EJ-19U 100 Channel Memory Unit.....$28
EJ-20U Tone Squelch Unit $41

ALINCO

ALINCO

ALINCO DR-150T

VHF FM MOBILE TRANSCEIVER

$299

The DR-150T sets a new industry standard for 2 meter mobiles, featuring up-to-the-minute technology and a full-powered 50 watts. So advanced and yet so simple to use, the DR-150T will more than satisfy the needs of beginners and Ham veterans alike. The exceptionally versatile receiver range, including UHF and AM Aircraft, and state-of-the-art features such as channel scope and cloning combine to make this Alinco mobile your only choice in 2 meters!

ALINCO DR-430T

440 MHz MOBILE

$319

The new DR-430T brings simple operation and ease of use to 440 MHz. It has 35 Watts of power and receive coverage from 430 to 460 MHz. 20 memory channels are standard (expandable to 100 with optional EJ-19U). The programmed memory scan feature skips over any empty channel, speeding up its operation. All repeater offsets are selectable and a CTCSS encoder is standard. DTMF microphone with up/down frequency control is included.

EJ-19U 100 Channel Memory Unit.....$28

Due to fluctuating dollar/yen values, all Kenwood, Icom, & Alinco radios are subject to price changes. Call before ordering.

ALINCO DR-M06

50 MHz FM MOBILE TRANSCEIVER

$339

Weary of the regular contacts on the 2m/70cm bands? With Alinco's new DR-M06 6m mobile transceiver, you will find exciting communications on the 6 meter band. Working DX is possible over several hundred miles taking advantage of many forms of propagation of this lowest amateur VHF band; ground wave, direct wave, sporadic-E, F2 reflection, and back scatters, just to name a few. Even without favorable propagation conditions, the 6 meters is sporadic-E ionosphere: single E-skip can allow you to communicate with stations as far away as a 1000 miles. However unpredictable occurrence of sporadic -E may be, more and more enthusiasts stay on 6 meters for routine contacts plus the bonus excitement. Now it's your turn to enjoy 6 meters with Alinco's DR-M06!

MOBILE ANTENNAS

Manufacturer & Model #	Gain	Frequency	Length	Mount	Price
Comet CHL350	0 dBi/2.15 dBi	10M/6M	7"	UHF	$69.95
Comet SB-25/SB-25NMO	4.1 dBi	2M	4' 8"	UHF/NMO	$49.95
Comet CA-220MR	4.2 dBi	220	3' 3"	UHF	$43.95
Comet CX-224/CX-224NMO	2.15 dBi/3.5 dBi/6.0 dBi	2M/220/440	3'	UHF/NMO	$74.95
Diamond CR-320A	2.15 dBi/3.8 dBi/4.5 dB	2M/220/440	36"	UHF	$89.00
Premier S-1 (pictured)	2.5 dB/3.2 dB	2M/440	14"	BNC	$23.95
Premier AT-3	2.15 dB/3 dB	2M/440	17"	UHF	$24.95
Comet SBB-2/SBB-2NMO	2.15 dBi/3.8 dBi	2M/440	18"	UHF/NMO	$39.95
Comet B-10/B-10NMO	0 dBi/2.15 dBi	2M/440	12"	UHF/NMO	$37.95
Premier AT-2B	3.2/5.6 dB	2M/440	22"	NMO	$39.95
Diamond NR-72BNMO	0/2.15 dB	2M/440	14"	NMO	$42.00
Comet B-20/B-20NMO	2.15 dBi/2.15 dBi	2M/440	30"	UHF/NMO	$49.95
Diamond CR-214S	2.1 dB/3.4 dB	2M/440	37"	UHF	$54.00
Comet SBB-5/SBB-5NMO	3.0 dBi/5.5 dBi	2M/440	38"	UHF/NMO	$54.95
Diamond NR-73BNMO	2.15 dBi/5.5 dB	2M/440	34"	NMO	$57.00
Diamond NR-770HA	3.0 dB/5.5 dB	2M/440	40"	UHF	$57.00
Comet SB-83	3 dBi/6 dBi /8.4 dBi	2M/440	35"	"N"	$72.95
Diamond SG-7200NMO	3.2 dB/5.7 dB	2M/440	38"	NMO	$79.00
Diamond SG-7500A	3.5 dB/6.0 dB	2M/440	41"	UHF	$79.00
Comet SBB-7/SBB-7NMO	4.5 dBi/7.2 dBi	2M/440	4' 7"	UHF/NMO	$79.95
Diamond SG-7900A	5.0 dB/7.6 dB	2M/440	62"	UHF	$109.00
Comet SB-44	5.5 dBi	440	28"	UHF	$49.95
Comet SB-94	2.15 dBi/5.1 dBi/7.2 dBi	2M/440/1.2GHz	24"	"N"	v69.95
Comet FS-92B	2.1 dBi/4.1 dBi/6.8 dBi	2M/440/1.2GHz	23"	"N"	$74.95
Comet SB-97	3 dBi/6.8 dBi/9.6 dBi	2M/440/1.2GHz	3' 3"	"N"	$79.95
Diamond NR-2000NA	3.15 dB/6.3 dB/9.7 dB	2M/440/1.2GHz	39"	"N"	$87.00
Comet FS-74B	5.1 dBi/7.2 dBi	440/1.2GHz	23"	"N"	$74.95
Comet SB-123	6.8 dBi	1.2GHz	22"	"N"	$54.95
Comet SBB-15	2.15/4.5/7.2DB	6M/2M/440	4' 11"	UHF	$89.95

Mounts sold on page 32

All items on this page, due to oversize or overweight, are shipped via surface transport.

BEST SELLER

TUCKER TA-150

DUAL BAND (2M/70CM) GLASSMOUNT ANTENNA

$39.95

Our new TA-150 is THE through-the-glass antenna for those of you with dual band mobiles. It gives you 2.6 dB of gain on 2m and 6.3 dB of gain on 440 MHz! 26" black stainless steel whip w/50 W power handling capability. 14' of coax and all mounting hardware included. Typical VSWR less than 2.0:1 throughout both bands(144-148 MHz, 440-450 MHz). 1 year warranty and our Tucker Satisfaction-Plus guarantee. Made in USA. Not for use on tinted windows. Tucker TRK-1 Remount Kit for TA-100/150 ›7.95

TUCKER TA-100

2M GLASSMOUNT ANTENNA

$29.95

Installation problems are a thing of the past with the new Tucker TA-100 through-the-glass antenna! Simply place this antenna on any available window space, mount the base on the inside of the glass and run the supplied 14' of coax to your 2 m radio! The signal is transferred through the glass and gives you 2.5 dB of gain throughout the band! The whip is 27" black stainless steel and will handle up to 55 W of power. 1.5:1 or less VSWR throughout the band. Since all antenna connections are handled inside your vehicle there are no weather-proofing problems. 1 year warranty and our Tucker SatisfactionPlus guarantee. Made in USA. Not for use on tinted windows.

Diamond NR-770HA
2M/440 MHz Antenna

- 1/2 wave on 2m, 2 5/8 waves on 440 MHz
- 3.0 dB gain on 2m, 5.5 dB gain on 440 MHz
- 200 W power handling capability
- 40" long, UHF mount

Also available: NR-770HNMO (NMO mount)...$59

$57

Hustler SF-2
3.4 dB Gain Antenna / 2 Meters

- 5.8 wave, stainless steel construction
- Power: 100 w rating
- Weight: 3.9 lbs.

$14.95

Premier AT-2B
Broadband Mobile Antenna

Broadband 2M 140-155/70CM 390-490 (3.2/5.6 dB). Great looking antenna, black chrome would enhance the appearance of any vehicle. Antenna is 22" from the tip of the mast to the bottom of the base. Has the Cellular look, is coil spring loaded and has a very flexible mast.

$39.95

Diamond SG-7900A
2M/440 MHz Antenna

- 2 1/4 waves on 2 m, 1 3/8 wave and 3 5/8 waves on 440 MHz
- 5.0 dB gain on 2 m, 7.6 dB gain on 440 MHz
- 150 W power handling capability
- 62" long, UHF mount

$109

Comet SBB5/SBB5NMO
DualBand 146/446 MHz - Black

- Gain & Wave
  146 MHz 3.0 dBi 1/2 wave
  446 MHz 5.5 dBi 5/8 wave X 2
- VSWR: 1.5:1 or less
- Max Power: 120 W FM
- Length: 38"
- Connector: Gold-Plated PL-259 or NMO Style

$54.95

Hustler FX-2
VHF Magnetic Mount Antenna

- 2M, black and chrome
- 3.4 dB gain, 5/8 wave
- 200 watt rating
- 15 foot coax, PL-259 installed
- Magnetic Mount, holds to 100 mph

$29.95

Diamond NR-72BNMO
2M/440 MHz Antenna

- 1/4 wave on 2m, 1/2 wave on 440 MHz
- 2.15 dB gain on both 2m and 440 MHz
- 100 W power handling capability
- 14" long, NMO mount

$42

Diamond SG2000
Mobile Whip Antenna

Frequency: 2 m
Gain: 5.2 dB
Max. power rating: 150 W
Impedance: 50 Ω
VSWR: Less than 1.5:1
Length: 1.59 m (62.6")
Weight: 400 g (0.88 lbs.)
Connector: UHF
Type: 7/8 wavelength double C-Load radialless

$79

Diamond NR-790A
Mobile Whip Antenna

Frequency: 2 m/70 cm
Gain: 4.5 dB (2 m); 7.2 dB (70 cm)
Max. power rating: 120 W
Impedance: 50 Ω
VSWR: Less than 1.5:1
Length: 1.46 m (57.5")
Weight: 380 g (0.84 lbs)
Connector: UHF
Type: 6/8 wavelength C-Load radialless (2 m)
Three 5/8 wavelength C-Load phased-element radialless (70 cm)

$87

MFJ-1728

5/8 Wave Mobile 2M Antenna

$24.95

Covers 144 to 174 MHz with low SWR across the entire 2 meter band. Handles 300 watts, enough for any mobile rig on the market. Stainless steel construction with 12' of coax and PL-259 connector.

Cushcraft CS-270M

70 CM/2M Mobile

$72.95

The CS-270M offers the most gain possible in its compact size. It has 6 dB on 440 and 3.7 dB on 2 meters all in a 36 «" tall design. The small coil is insert molded into the center of the radiator. No moisture can penetrate the coil with this technique. The magnetic mount features a clinging 90 pound pull and a roof-protecting rubber pad. The feed line is double shielded Teflon® UltraLink Cable™. Its low-loss, high temperature and designed to last. The CS-270M has all of the features you will need in a dual-band mobile antenna.

Cushcraft VHF/UHF Mobile Antennas

Cushcraft/Signals mobiles offer the high performance that you need for consistent mobile communications such as commuting and public service activities. Theses antennas are the choice of hams and communications professionals around the world who demand high quality, premium products.

Model No.	Frequency MHz	Whip Length Inches - Meters		Description	Price
CS-270M	144-148/440-450	34	86	Magnetic	$72.95
CS-270A	144-148/440-450	34	86	Coil & Whip	$39.95
CS-147M	144-174	49	1.25	Magnetic	$59.95
CS-147T	144-174	49	1.25	Trunk Lip	$59.95
CS-147	144-174	49	1.25	3/4" Hole	$49.95
CS-147A	144-174	49	1.25	Coil & Whip	$39.95
CS-1147M	144-148	20	5	Magnetic	$39.95
CS-220M	222-225	33	84	Magnetic	$59.95
CS-220T	222-225	33	84	Trunk Lip	$59.95
CS-220	222-225	33	84	3/4" Hole	$49.95
CS-450M	435-470	29.5	75	Magnetic	$59.95
CS-450T	435-470	29.5	75	Trunk Lip	$59.95
CS-450	435-470	29.5	75	3/4" Hole	$49.95
CS-1450M	430-450	7	17	Magnetic	$39.95
CS-50M	46-54	49	1.25	Magnetic	$59.95
CS-50T	46-54	49	1.25	Trunk Lip	$59.95
CS-50	46-54	49	1.25	3/4" Hole	$49.95
CS-28M	28-30	49	1.25	Magnetic	$59.95

Gain and Quarterwave Mobile Antennas

Cushcraft's years of commercial and amateur experience apply cutting-edge designs to consistently high quality materials to produce the best mobile antennas you can buy. All inductors (and even the coil contacts) are silver plated for better RF conductivity, and all Cushcraft mobile hardware is brass to prevent the seizing inherent with inferior, dissimilar metal joints. All Cushcraft mobile coil housing are ABS, impervious to temperature changes and ultraviolet radiation. Brass base threads, ultrasonically welded into coil housings, eliminate premature failures associated with inferior fastening techniques, and Cushcraft insert-molded 440 MHz phasing coils assure weather-tight integrity. Only Cushcraft mobile antenna mounts are entirely 50 Ω, eliminating lossy "VSWR bumps" common in many well known designs. Cushcraft quarter-wave models (CS1147 and CS1450) are broadband, require no tuning and include UltraLink™ low loss cable.

cushcraft CORPORATION

Best Seller!

Tucker TA-500

Dual Band (2M/70cm) Magnet-Mount Mobile Antenna

$14.95

This inexpensive little dual-band mag-mount will give you great performance for years to come. It features a 19" stainless steel whip with an attractive "cellular look". The 3" magnet is one of the strongest we've seen and has a protective pad on the bottom for scratch-free installation. Handles 200 W with an SWR of less than 2:1 all across 2m and from 435-450 MHz. Unity gain on 2m, 2.1 dB gain on 440. Comes with 14' of coax with PL-259 connector. 1 year warranty and our Tucker SatisfactionPlus guarantee. Made in USA.

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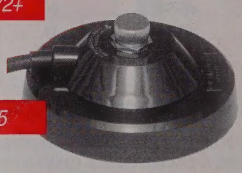
Comet RS-9

Comet RS-81

Comet RS-820

Comet RS-850

Lakeview 372+


Diamond SPM35

Comet RS-21

COMET RS-21

Hatchback Rear Door Mount (Van, Blazer, Etc.).....$34.95

COMET RS-25

Clamp Mount w/Dial Lock.....$32.95

COMET CK 3M5

Deluxe Coax Assembly.....$39.95
Deluxe 2-step coax assembly. 16.5 foot total length-RG-188 coax. UHF connectors.

COMET RS-820

Trunk Lip or Hatchback Mount.....$44.95

COMET RS-850

Clamp Mount.....$39.95

COMET RS-9

Small Trunk-Lip Mount.....$13.95

PREMIER WA-1

Glass/Sunroof Clip Mount.....$17.95

DIAMOND SPM35

Magnetic Mount.....$44.95
We've never seen a stronger magnetic mount than this one. In fact, you may need a crowbar to get this thing off (crowbar sold separately)!

DIAMOND NMO/UHF

SO-239 to NMO base adapter.....$22.95
Adapts SO-239 connector to NMO type antenna.

VALOR PAS

Surface Mount.....$14.95
Surface mount. Installs in 3/4" hole in roof, fender, or cowl. Includes 17' RG58 and PL-259 connector.

VALOR WMBNC

Mount Kit.....$21.95
Our popular window mount kit with BNC to BNC fittings and 6' RG58U cable.

VALOR MM3401; MM3401B (BLACK)

Max-Magnet Mount Kit.....$39.95

COMET 3D4M

Standard Cable Assembly.....$23.95
13.5 feet of low loss coax. Gold-plated UHF (PL-259/SO-239) connectors.

COMET 3D5M

Standard Cable Assembly.....$25.95
Same as 3D4M, but 17 feet of coax.

COMET 3D4N

Coax Assembly.....$24.95
Standard Cable Assembly with Type N connectors. Recommended to 900 MHz.

COMET 5D4N

Coax Assembly.....$29.95
13.5 feet of extremely low loss coax. Gold-plated N-type connectors. Recommended up to 1400 MHz.

LAKEVIEW 372+

Magnet Mount.....$23.95
Our best small mag-mount. This 5" magnet mount features a super-strong grip and 15' of RG-58 coax. UHF connector.

DUPLEXERS/TRIPLEXERS

COMET CF-413OA
DUPLEXER 446/1200 MHz $67.00
N-Female output, N-Male inputs.

COMET CF-4160K, 4160I
146/446 MHz DUPLEXERS.....$49.95
S0-239 output connector. CF-4160K inputs: PL-259, PL-259. CF-4160I inputs: PL-259, N-Male.

COMET CFX-4310B/CFX4310C
TRIPLEXER 146/446/1200 MHz ..$79.95
N-female output. CFX-4310B inputs: PL-259, N-male, N-male. CFX-4310C inputs: PL-259, PL-259, N-male.

COMET CFX-431A/CFX-431B
TRIPLEXER 146/446/1200 MHz ..$79.95
N-Female output. CFX-431A inputs: PL-259, N-Male, N-Male. CFX-431B inputs: PL-259, PL-259, N-Male.

COMET CFX-514
TRIPLEXER 50/146/446 MHz...$83.95
SO-239 output, PL-259 inputs.

COMET CFX-514J
TRIPLEXER 50/146/446 MHz...$74.95
S0-239 connectors.

DIAMOND MX-3000D
TRIPLEXER $89.00
Perfect for triband antennas. 2 PL-259, 1 "N" connector.

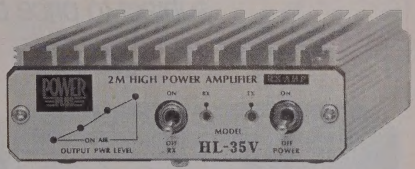
DAIWA DX-10D
BEST SELLER!
DUPLEXER.....$28.95
PL-259 connectors

DAIWA DX-10M
BEST SELLER!
DUPLEXER.....$37.95
Same characteristics of the DX 10D. Comes with coax cable and two PL-259 connectors.

BEST SELLER! NOW ALL MODE

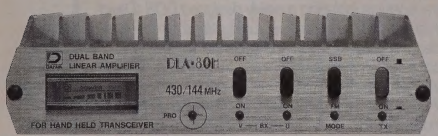
POWER PLUS HL-35V
35W 2M LINEAR AMPLIFIER

$99



Tucker breaks the $100 price barrier with this quality amp! You get 35 W out with 5 watts in and only .5 W is needed to drive it to lower output. You even get a 13 dB GaAsFET receive preamp. We have tested this amp and it has first-class construction using strip-line techniques. This technique coupled with modular construction provides unsurpassed reliability and RF performance. 1 year warranty. Get yours today while supplies last!

Frequency Range • 144-148 MHz
Mode • FM
RF Input • 0.5-5 Watts
RF Output • 20-35 Watts
Dimensions • 100 (W) x 170 (L) x 33 (D) mm
Connectors • UHF (SO-239)
Power Requirements • 13.6 VDC @ 4 Amps



DAIWA POWER AMPLIFIERS

Daiwa utilizes the latest hi-tech circuitry and components to deliver clean power amplification and years of reliable service. Each Power Amplifier includes a 15 dB Preamp and is built rugged for both home and mobile operation. A wide range of input and output capabilities are provided to meet your specific requirements. If you need to step up the power, step up to a Daiwa!

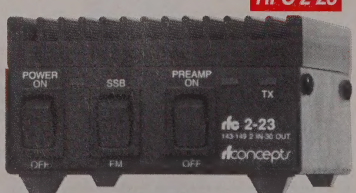
Daiwa DLA-80H

Daiwa LA 2065R

Model	Freq.	Input Power	Output Power	Input Requirements	Price
DLA-25H	2M/440	200 mW-6 W	25 W	13.8 VDC/5 A max	$419
DLA-80H	2M/440	3-25 W	80 W	13.8 VDC/17 A max	$499
LA-2035R	2M	1-5 W	30 W	13.8 VDC/5 A max	$134
LA-2065R	2M	1-14 W	60 W	13.8 VDC/8 A max	$199
LA-2090HK	2M	1-5 W	90 W	13.8 VDC/12 A max	$219
LA-2180H	2M	1-45 W	160 W	13.8 VDC/25 A max	$399

RF CONCEPTS VHF/UHF POWER AMPLIFIERS

RFC 2-23



All: include transistor finals; require 13.8 VDC supply; have one year warranty; are made in USA in Lawrence, Kansas.

Model	Frequency	Power In	Power Out	Max In	Current	Price
2-23	2M	2-5 W	2 W=30 W	5 W	5 A	$134
2-417	2M	2-50 W	45 W=170 W	50 W	22 A	$269
2/70G	2M/440	5-7 W	5 W=30 W	7 W	6 A	$259
4-110	450	2-15 W	10 W=100 W	18 W	22 A	$369

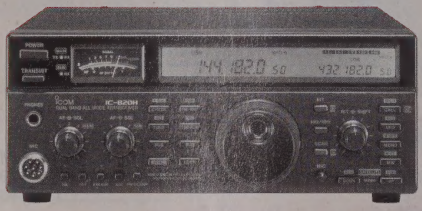
Kenwood TS-790A
2M/440 MHz Multi-Mode Transceiver

$1799

KENWOOD

State of the art, and then some. Demonstrating the full potential of an all-mode transceiver equipped with advanced electronics, Kenwood's high-quality TS-790A breaks new ground in terms of both features and performance. And when equipped with the optional 1200 MHz unit, it offers tri-band coverage for maximum versatility. Supporting its dual-frequency receive capability are separate readouts and controls for main and sub bands, and even full-duplex cross-band operation is possible. Covers USB, LSB, CW, CW Narrow, and FM modes. Satellite communication is a breeze with frequency correction for programming satellite offsets. Dual digital VFO's control each band. Other features include 59 multi-function memories, numerous scan functions, call channel, auto-mode and repeater offset, optional CTCSS decoder for main and sub-bands, IF shift function, RF output power control and much more. Requires 13.8 VDC, 15 A maximum.

Due to fluctuating dollar/yen values, all Kenwood, Icom, & Alinco radios are subject to price changes. Call before ordering.



Icom IC-820H
2M/440 MHz All-Mode Transceiver

$1649

The new IC-820H is the most exciting new VHF/UHF all-mode to ever hit the market! It is compact and lightweight making it an ideal rig for mobile, fixed or field operation. Yet it's packed with top performance features unmatched by other base station transceivers including a newly designed DDS (Direct Digital Synthesizer) capable of resolving 1 Hz tuning steps for fine tuning. Built-in satellite functions include normal and reverse tracking, independent uplink/downlink control for doppler shift compensation and separate satellite VFO. Ten satellite memories allow you to quickly switch from normal to satellite operation and easily recall satellite uplink and downlink frequencies. Independent controls and indicators for each band make the IC-820H easy to operate. You can even receive simultaneous signals on each band and monitor the signal strength of both signals on separate S-meters! Frequency coverage is from 144-148 MHz and 430-450 MHz. Both bands have two VFO's. 45 W/40 W (FM, CW) 35/30 W (SSB). Additional features include IF shift, a noise blanker, an AF speech compressor, auto repeater and one touch repeater functions, built-in high stability crystal unit, RIT, CW semi break-in and side tone, programmed scan, memory scan and mode select scan. 9600 BPS packet operation is also included with a built-in data jack. 2 antenna connectors, stereo headphone jacks, 9.5" x 3.7" x 10". Finally, satellite operation is within the budget of the average ham! Get the new IC-820H!

ICOM

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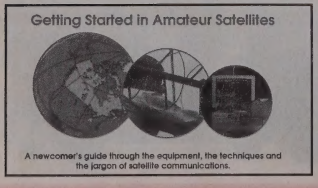
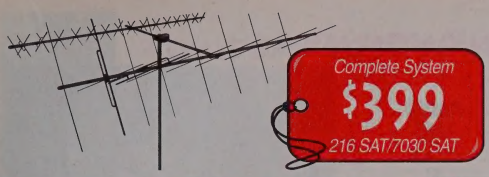

Getting Started in Amateur Satellites
A newcomer's guide through the equipment, the techniques and the jargon of satellite communications.

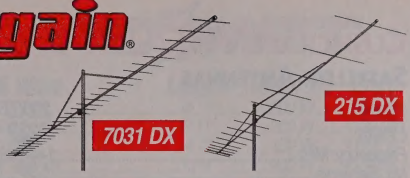
Getting Started In Amateur Satellites

This video will get you started in the exciting world of amateur satellites. It will guide you through equipment, techniques and the jargon of satellite communications. You will discover veteran operators' satellite station set ups, live "on-the-air" QSOs, how to find and track amateur satellites and much, much more. Order# BOK92

$19.95



hy-gain



Hy-Gain 216 SAT & 7030 SAT

Oscar Link 435 MHz • 145.9 MHz

Model	216 SAT	7030 SAT
Price:	$179	$169
Number of Elements	16	30
Gain	11.5 dBdc	14 dBdc
Front-to-Back Ratio	25 dB	25 dB
Power Rating	200 W PEP	200 W PEP
Connector	UHF, SO-239	"N"

Hy-Gain 7031-DX & 215-DX

New DX Series VHF/UHF Beams

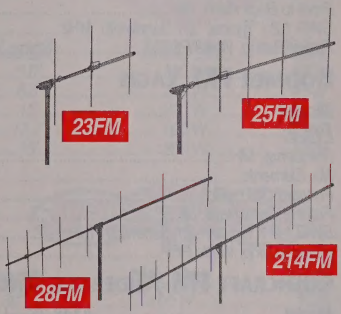
Model	7031-DX	215-DX
Price:	$169	$179
Number of Elements	31	15
Gain	17.6 dBd at 432.1 MHz	14.2 dBd at 144.2 MHz 13.9 dBd at 146.0 MHz
Front/Back	28 dB	30 dB
Maximum Power	1 kW avg, 2 kW pk	1 kW avg, 2 kW pk

Hy-Gain 23FM, 25FM, 28FM, & 214FM

VHF Beams

Model	23FM	25FM	28FM	214FM
Price:	$36.95	$44.95	$57.95	$64.95
Max. Gain (dBd)	6.1*	9.1*	11.8*	13*
Max. Front-to-Back Ratio	20	20	20	20
Number of Elements	3	5	8	14
Bandwidth @ 2:1 VSWR	4	4	4	4

*These Hy-Gain antennas are realistically gain-rated against a standard dipole antenna (dBd) instead of a theoretical isotropic source. Add 2.2 dB for dBi.



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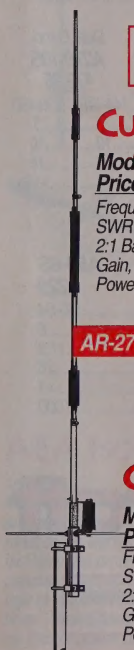
Cushcraft Dual Band Ringos

Model	AR-270	AR-270B
Price:	$72.95	$99.95
Frequency, MHz:	144-148 / 430-450	144-148 / 430-450
SWR 1.2:1 Typical:		
2:1 Bandwidth, MHz:	>4 / >15	>4 / >15
Gain, dB:	3.7 / 5.5	5.5 / 7.5
Power, Watts FM:	250 / 250	250 / 250

Cushcraft Ringo Ranger II

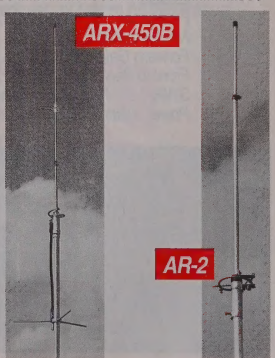
Model	ARX-2B	ARX-220B	ARX-450B
Price	$59.95	$59.95	$59.95
Frequency, MHz	135-160	222-225	435-450
SWR 1.2:1 Typical			
2:1 Bandwidth, MHz	>3	>5	>10
Gain, dB	7.0	7.0	7.0
Power Rating, Watts FM	1000	500	500



cushcraft CORPORATION

Cushcraft Original Ringos

Model	AR-2	AR-6	AR-10	AR-220	AR-450
Price:	$39.95	$59.95	$59.95	$39.95	$39.95
Frequency, MHz	135-160	50-54	28-29.7	222-225	440-460
SWR 1.2:1 Typical:					
2:1 Bandwidth, MHz	10	2	>1.5	10	20
Gain, dB	3.75	3.75	3.75	3.75	3.75
Power Rating, Watts FM	1000	1000	1000	500	500



Cushcraft VHF/UHF Base Station Antennas

Satellite Antennas

Model	22XB	738XB
Price:	$239	$219
Frequency, MHz	144-148	432-438
No. Elements	22	38
Forward Gain, dBdc	14	15.5
Front to Back Ratio, dB	25	25
Ellipticity dB at boresight	2	2
SWR 1.2:1 Typical: 2:1 Bandwidth, MHz	4	6
Power Rating; Watts PEP	600	250

Boomer Sideband / CW Yagis

Model	13B2	17B2	220B	424B
Price:	$109	$189	$149.95	$129.95
Frequency, MHz:	144-148	144-145	222-223	424-435
No. Elements:	13	17	17	24
Forward Gain, dBd:	15.8	18.0	17.2	18.2
Front to Back Ratio, dB:	26	26	30	30
SWR 1.2:1 Typical: 2:1 Bandwidth, MHz	>4	>2	>2	>12
Power Rating, Watts PEP:	2000	2000	2000	2000

Boomer FM Yagis

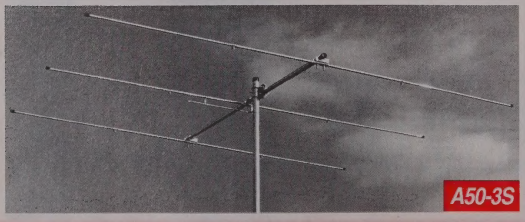
Model	124WB	26B2	224WB	225WB
Price:	$64.95	$309	$59.95	$119.95
Frequency, MHz	144-148	144-148	222-225	222-225
No. Elements	4	26	4	15
Forward Gain, dBd	10.2	18.8	10.2	15.5
Front to Back Ratio, dB	19	26	24	24
SWR 1.2:1 Typical: 2:1 Bandwidth, MHz	>4	>4	>5	>5
Power Rating, Watts PEP	2000	2000	2000	2000

Cushcraft FM /Sideband Yagis

Model	A148-3S	A148-10S	A144-7S	A449-6S	A449-11S	A430-11S	Dual Band A270-10S
Price:	$44.95	$72.95	$54.95	$54.95	$74.95	$72.95	$79.95
Frequency, MHz	144-148	144-148	144-146	440-450	440-450	430-435	144-148 / 430-450
No. Elements	3	10	7	6	11	11	5 / 5
Forward Gain, dBd	7.8	13.2	11.1	10.5	13.2	13.2	10 / 10
Front to Back Ratio, dB	25	24	20	18	20	20	20 / 18
SWR 1.2:1 Typical: 2:1 Bandwidth, MHz	>5	>4	>3	>10	>10	>10	>4 / >10
Power Rating, Watts PEP	1000	1000	1000	350	350	350	350 / 350

Cushcraft 6 Meter Yagis

Model	617-6B	A50-3S	A50-5S	A50-6S
Price:	$319	$89.95	$139.95	$229
Frequency	50-51	50-54	50-54	50-54
No. Elements	6	3	5	6
Forward Gain, dBd	14.0	8	10.5	11.6
Front to Back Ratio, dB	30	20	24	26
SWR 1.2:1 Typical: 2:1 Bandwidth, MHz	>1	>1	>1	>1
Power, Watts PEP	2000	1000	1000	1000



cushcraft CORPORATION

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Comet Base Station Antennas

Model	Frequency	Gain & Wave	Length	Max. Pwr.	Price
CA-ABC-21	146 MHz	3.4 dBi, .625	4' 7"	200 W	$59.95
GP-3	146 MHz/446 MHz	4.5 dBi/7.2 dBi	5' 11"	200 W	$109.95
CA-F72GF	440-470 MHz	6.0 dBi	4' 7"	150 W	$119.00
CA-ABC-23	146 MHz	7.8 dBi, .625 x3	13' 4"	200 W	$134.95
CA-712EF	440-450 MHz	9 dBi, .5 x12	10' 5"	200 W	$134.95
CA-F22GF	136-175 MHz	6.0 dBi	8' 10"	150 W	$139.95
GP-15	52 MHz/146 MHz/446 MHz	3.05 dBi, .625/6.2 dBi, .625 x2/8.6 dBi, .625 x4	7' 11"	150 W	$139.95
GP-93	146 MHz/446 MHz/1200 MHz	4.5 dBi, .757.2 dBi, .625 x3/10 dBi, .625 x6	5' 7"	150 W	$139.95
CMR241	146 MHz/446 MHz	4.5 dBi, .875/7.2 dBi, .625 x3	6' 9"	200 W	$149.95
GP6	146 MHz/446 MHz	6.5 dBi, .625 x2/9.0 dBi, .625 x5	10' 2"	200 W	$154.95
GP-21	1200 MHz	14.9 dBi, .5x21	8' 2"	100 W	$159.00
CA-2422S	2400 MHz	15.3 dBi, .5x22	4' 8"	100 W	$179.00
GP-9	144 MHz/446 MHz	8.5 dBi, .625 x3/11.9 dBi, .625 x8	17' 8"	200 W	$189.95
GP-98	146 MHz/446 MHz/1200 MHz	6.5 dBi, .625 x2/9.0 dBi, .625x5/13.5 dBi, .625 x12	9' 8"	150 W	$209.95

Comet GP-9

Diamond Base Station Antennas

Model	Frequency	Gain & Wave	Length	Max. Pwr.	Price
X-50A	2m/440 MHz	4.5 dB, 3.25/7.2 dB, 3.625	5.6'	200 W.	$109
X-200A	2m/440 MHz	6.0 dB, 2.625/8.0 dB, 4.625	8.3'	200 W.	$149
F-23A	2m	7.8 dB, 2 7/8	15'	200 W.	$159
X-510NA	2m/440 MHz	8.3 dB, 3.625/11.7 dB, 8.625	17.2"	200 W.	$199
F-718A	440 MHz	11.5 dB, 18.5	15'	250 W	$229

Diamond X-50A

Hustler Base Station Antennas

Model	Frequency	Gain & Wave	Length	Max. Pwr.	Price
G6-440	440 MHz	6 dB, .625	88"	100 W	$129
G6-270R	2m/440 MHz	6 dB	100"	100 W	$159
G7-144	2m	7 dB, .625	15' 4"	1 kW	$149

Create CLP 5130-2

LOG Periodic Antenna

This high gain, wide band VHF/UHF antenna is excellent for DXing, Amateur Radio, FM broadcast, scanners, VHF/UHF television, government, cellular, and business band use. Covers all frequencies from 105 to 1300 MHz with outstanding performance such as forward gain of 10 to 12 dB and VSWR of 2.0:1 or less. Compact and lightweight, all aluminum design with multi purpose horizontal or vertical mounting. Comprised of 23 elements with a boom of 4.6 ft and the longest element of 4.6 ft. If you are thinking about getting your license and want just one antenna for both scanner and amateur radio use, get it all with this great antenna!

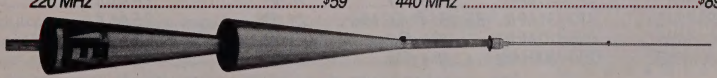
Also Available: CLP 5130 w/6m…$349

AEA IsoPoles Top Performing Antennas

144 MHz $59

220 MHz $59

440 MHz $89



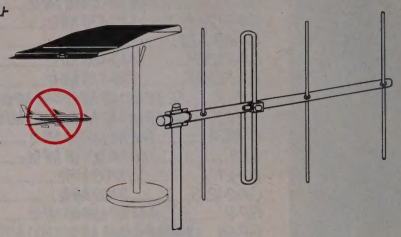
Maximum gain attainable for respective lengths and zero degree radiation angle which puts most of the signal right on the horizon.

IsoPoles are omnidirectional vertical antennas capable of accepting full legal power, impedance matched at the factory for complete coverage of respective amateur bands. Exceptional decoupling. Built to stand up to harsh conditions. Broad band range- typical SWR is 1.4 to 1 or better across the entire band. There is no loss of power from one end of the band to another. Mast not included.

All items on this page, due to oversize or overweight, are shipped via surface transport.

M² Antennas Product Line...

We're proud to offer our customers the exiting new line of M2 antennas. M2 Enterprise manufactures a wide range of sizes and types of superb antennas. They take pride in their antennas and it is quite obvious in the construction and performance that every antenna delivers. The antenna designs feature computer optimized and superb clean patterns to take advantage of todays low noise GasFet Preamps. Construction of all M2 antennas features weather proof designs, element mounts are all 6061-T6 machined aluminum assembled with all stainless steel hardware. M2 antennas are designed to work for years meeting their full performance specification while others are degrading or failing to due to poor joints and burned up components. Power handling is covered by building a 400% safety factor in each antenna. All in all for DXing or just casual conversation M2 takes the worry and frustration out and puts satisfaction and pride in its place!



2 Meter Antennas

MODEL #	FREQ. RANGE	GAIN	FRONT TO BACK	WIND AREA	BOOM LENGTH	TURN RADIUS	PRICE
2M SQLOOP	144-144.5 MHz	4.8 @ 11°	Hrz omni	.074 sq. ft.	NA	NA	$59
2M4	144-148 MHz	7.5 dBd	20 dB	0.50 sq. ft.	4 ft.	4 ft.	$89
2M7	144-148 MHz	10.3 dBd	20 dB	.74 sq. ft.	8.8 ft.	4.5 ft.	$109
2M12	144-148 MHz	13 dBd	25 dB	1.5 sq. ft.	19.5 ft.	9.5 ft.	$149
2M5WL	144-148 MHz	14.8 dBd	22 dB	2.7 sq. ft.	33.0 ft.	18.75 ft.	$189
2M18XXX	144-148 MHz	15.3 dBd	25 dB	2.9 sq. ft.	36.3 ft.	19.5 ft.	$229
2MCP14	144-148 MHz	10.3 dBd	20 dB	1.1 sq. ft.	10.5 ft.	6 ft.	$169
2MCP22	144-148 MHz	12.5 dBd	25 dB	2.5 sq. ft.	18.6 ft.	10 ft.	$229
2M8WL	144-148 MHz	16.7 dBd	24 dB	5.8 sq. ft.	52.8 ft.	27 ft.	$339
2M5-440XP	144-148/430-450 MHz	9.0 & 12 dBd	15 & 25 dB	1.1 sq. ft.	5.0 ft.	2.5 ft.	$159

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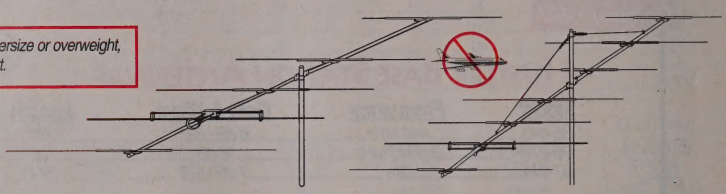
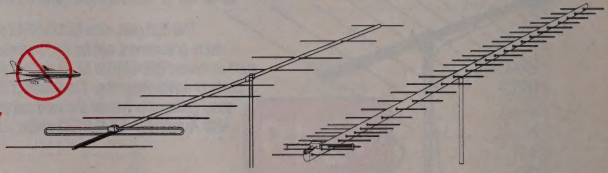


6 Meter Antennas

MODEL #	FREQ. RANGE	GAIN	FRONT TO BACK	WIND AREA	BOOM LENGTH	TURN RADIUS	PRICE
6M SQLOOP	50-54 MHz tun	4.8 dBd	Hrz omni	0.13 sq.ft.	NA	NA	$129
6M5	50-50.5 MHz	9.2 dBd	12 dB	2 sq. ft.	15.75 ft.	9.5 ft.	$199
6M7	49.5-50.5 MHz	10.5 dBd	23 dB	3 sq. ft.	26.75 ft.	14.5 ft.	$289

222 MHz, 70CM, 902 MHz, 23 CM And 13CM Antennas



MODEL #	FREQ. RANGE	GAIN	FRONT TO BACK	WIND AREA	BOOM LENGTH	TURN RADIUS	PRICE
222-7EZ	220-226 MHz	9.8 dBd	22 dB	.50 sq. ft.	5.66 ft.	5.8 ft.	$89
420-50-11	420-450 MHz	11.3 dBd	23 dB	0.5 sq. ft.	5 ft.	2.5 ft	$79
440-18	420-455 MHz	14.5 dBd	23 dB	.875 sq. ft.	11.33 ft.	6 ft.	$109
436-CP30	430-440 MHz	14.5 dBd	24 dB	1 sq. ft.	9.75 ft.	5 ft.	$229
432-9WL	420-440 MHz	17.3 dBd	24 dB	1.6 sq. ft.	21 ft.	11 ft.	$159
432-13WL	430-434 MHz	18.6 dBd @ 432 MHz	24 dB	2.5 sq. ft.	21 ft.	10.5 ft.	$229
902-14WL	895-910 MHz	19.0 dBd	25 dB	1.2 Sq. ft.	15.3 ft.	8 ft.	$199
23CM35EZ	1250-1300 MHz	18.4 dBd	25 dB	.06 sq. ft.	10 ft.	5.5 ft.	$129

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Emoto EV700D5X

Azimuth/ Elevation Rotor

$1549

Satellites pass through space in three dimensions and the EV700D5X is designed to track satellites in all three dimensions. This AZ-EL rotator is fully computer compatible using commercial or user-written software. Includes presets. This is the strongest AZ-EL rotor system available in today's amateur market. Just look at how it compares to the Yaesu G5600B:

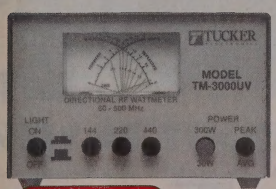
Model:	Yaesu G-5600B	EV700D5X
Roto Tq.	51'	57'
Brk Tq.	290	717
Vert.Tq.	101	215
Vert.Brk.	290	358

$259

Daiwa DP-820

Digital VHF/UHF SWR/PWR Meter

The DP820 offers fully automatic digital PEP or average power reading in the 140 to 525 MHz range. The large LCD displays forward power and VSWR by digit and bar graph simultaneously. It is also able to confirm SWR by a varying beep tone (perfect for visually impaired operators). Handles up to 150 W. "N" connectors and a lighted display. Once you start using one you'll wonder how you got along without it!



$69

$89.95

Daiwa CN-103M

VHF/UHF SWR/PWR Cross-Needle Meter

With cross-needle metering, you get hassle-free full time power, reflected power and VSWR readings simultaneously at a glance. The CN-103M gives you PEP and average power reading for base-station use. Covers 104 to 525 MHz and will handle up to 200 W. 2 scales: 20 and 200 W. Comes with PL-259 connectors and backlight. Step up to Daiwa quality-from the originator of the cross-needle meter!

Also available:

CN-103N With "N" Connectors	$89.95
CN101 HF Version (1-30 MHz, 1-5 kW 50-239)	$79.00

AEA SWR-121 V/U

VHF/UHF Graphical SWR Analyzer

$399

120 to 175 MHz, 200 to 225 MHz and 400 to 475 MHz; RS-232C interface; Internal keypad beeper; Compact and battery powered; V/U features automatic battery-saver functions and is ready to go anywhere!

Daiwa CS4

4 Position VHF/UHF Coax Switch "BNC"

$39.95

A great little switch that works up to 1.5 GHz. It features BNC connectors and solid construction.

$199

Daiwa NS-663BM/BN

Sensor-Capable VHF/ UHF SWR/PWR Meter

Covers 140 to 1300 MHz PEP or average cross-needle reading. It features the Daiwa exclusive multiband remote sensor capability that lets you install the '663 in your station and remote units for several different bands. Simply choose the band you want and switch it on! Sensors available to 1300 MHz! (see below) 30/300 W scales. Choose the NS-663BM with PL-259 connectors or the NS-663BN with "N" connectors.

Sensors:

U66V	104 to 525 MHz	$79
U66VN	140 to 525 MHz	$79
U66S2	900 to 1300 MHz	$119
SS2	Sensor Switch	$38

Daiwa CN-460M

VHF/UHF Mobile Cross-Needle SWR/Power Meter

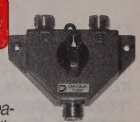
$79

Super-compact meter for mobile and base use. It covers 140 to 450 MHz with 15/150 W scales. It comes with a backlight and is built rugged enough for mobile use and abuse!

Daiwa CS-201GII

2 Position VHF/UHF Coax Switch "N"

$39.95



Professional engineered cavity construction and will handle frequencies up to 2 GHz. It will handle 1.5 kW up to 30 MHz and 150 W to 2 GHz. It features gold plated "N" connectors and the unused terminals are grounded for safety.

Tucker TM-3000UV

100-500 MHz Cross-Needle SWR/PWR Meter

Tucker SatisfactionPlus 30-Days - No Questions Asked Guarantee

The new Tucker TM-3000UV covers the frequency range from 100-500 MHz and displays forward power, reflected power, and SWR SIMULTANEOUSLY on it's dual movement meter system. Like the TM-3000HF, it uses a TRUE SHIELDED DIRECTIONAL COUPLER for greater accuracy. 30 and 300 W scales are selectable from the front-panel. All other features of the HF version are included as well, such as backlighting, AVERAGE and PEAK power readings and scratch-resistant construction. The frequency range is selected in three steps (144 MHz, 220 MHz and 440 MHz) for optimizing accuracy within the amateur bands. With SO-239 connectors. Everything is backed by our SATISFACTION PLUS GUARANTEE.

Tucker AC-2 Power Supply...$9.95

KENWOOD TS-850S/AT
HF TRANSCEIVER (W/BUILT-IN AUTOMATIC ANTENNA TUNER)

Plus $100 Rebate Direct From Kenwood

$1699

Features include a preprogrammed automatic antenna tuner (built-in or optional), Kenwood's enhanced dynamic range, 100 memory channels (3 scan modes), a Direct Digital Synthesizer and digital PLL system to permit ultra-fine (1 Hz) tuning, plus much more. Covers the 160 to 10 meter Amateur bands along with receive range of 100 kHz-30 MHz. Mode: J3E (SSB), A1A (CW), F1D (FSK), F3E (FM), A3E (AM); Output Power: SSB/CW/FM/FSK = 100 W, (without Antenna Tuner): AM = 40 W.

KENWOOD TS-690S
HF/6M TRANSCEIVER

The Kenwood TS-690S with its portable size, superb operating features and 6m capability is a star. Features include: 160-6m operation general coverage receiver from 500 kHz-54 MHz, direct frequency entry, AIP system for clearer reception, ultra fine tuning with DDS for 1 Hz steps, triple conversion receiver with 4 different filter options with memory, first-class interference reduction, impressive split-frequency operation, 100 memory channels, three different scan modes, digital bar meter and multifunction display, and all-mode RF output power control.

$1449

KENWOOD TS-870S
HF TRANSCEIVER

$2699

The new Kenwood TS-870S uses state-of-the-art DSP chips that provide receiving enhancements to bring signals out of the noise. Imagine over 100 dB of noise reduction with no signal loss, CW bandwidth adjustable to 50 Hz plus these exciting features:

- *100 kHz - 30 MHz General Coverage Receiver*
- *Built-In Tone Encoder*
- *100 W output on SSB, CW, FM, FSK; 25 W on AM*
- *Built-in Automatic Antenna tuner (TX & RX)*
- *Dual VFO with 100 Memory Channels Plus 5 Quick Memory Channels*

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KENWOOD TS-950SDX HF TRANSCEIVER

$3999

Swift performance and surgical precision are second nature to Kenwood's new TS-950SDX, as magnificent in action as a cheetah in full pursuit of its prey. Advanced features such as the built-in DSP (digital signal processor) and MOSFET final section, a first in the world of amateur transceivers. The result is exceptional transmission signal purity and first-class audio quality— a new benchmark for HF communications. And operating ease is just as impressive, thanks to the convenient menu system and numerous other user-friendly refinements. Major features include: 160-10m amateur band operation with 100 kHz-30 MHz general coverage receiver. Dedicated Power MOSFET final section and dual frequency receive capability (main and sub receivers), automatic antenna tuner, and 15 band pass filters; selectable IF filters w/memory, 100 memories, plus much more!

$939

KENWOOD TS-140S
HF TRANSCEIVER

Introducing the compact communications companion. Equipped with a 500 kHz to 30 MHz general coverage receiver, Kenwood's TS-140S is the perfect entry-level HF Transceiver. All-mode performance is enhanced by numerous user-oriented features- such as 31 memory channels, a dual-mode noise blanker with level control, CW full & semi break-in, built-in speech processor, and optional automatic antenna tuner. And yet the TS-140S is sufficiently light for DX-peditions and mobile use. What better way to experience the excitement of Amateur Radio. Transmitter Frequency range: 160, 80, 40, 30, 20, 17, 15, 12, 10 meter Amateur bands.

Plus $50 Rebate Direct From Kenwood

$1299

KENWOOD TS-450S/AT
HF TRANSCEIVER (WITH BUILT-IN AUTOMATIC ANTENNA TUNER)

Kenwood's formidable TS-450S can star in virtually any role with its 100 W transmission capabilities on all nine amateur bands-in SSB, CW, AM, FM and FSK modes. Compact, lightweight construction makes this HF transceiver particularly suited for DX-peditions. Rugged reliability is matched with leading-edge electronics: automatic antenna tuner, Kenwood's AIP system for improved dynamic range, Direct Digital Synthesizer (DDS) for fine (1 Hz) tuning, and the optional DSP-100 digital signal processor. In short, all of the great features of the TS-690S with the exception of 6m coverage. Transmitter frequency range: 160, 80, 40, 30, 20, 17, 15, 12, 10 meter Amateur bands; Receiver frequency range: 500 kHz-30 MHz.

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Tucker Electronics pays the shipping cost of any order above $1,300.00 via the most efficient shipping method.

Not available in all areas...call to confirm delivery availability.

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Warranty: If for any reason you are not satisfied with your order, within 30 days from receipt of order you can return any item for a refund or replacement, less shipping cost. Your choice! Our standard 30 day return privilege applies to all units unless otherwise stated. Prior to returning merchandise, please call for a Return Authorization number. In order to receive a full credit, ALL RETURNED MERCHANDISE MUST INCLUDE THE ORIGINAL PACKING MATERIALS, MANUALS, AND ACCESSORIES, AND BE IN NEW CONDITION. We reserve the right to refuse or charge up to a 15% re-stocking fee for damaged or incomplete returns. If the merchandise is not in new condition a repair charge may be assessed upon inspecting the condition of the returned item. New radio products carry full manufacturer's warranties.

Warranty Note: This warranty does not cover or include shipping, handling costs, software products, books/video tapes, media, batteries, kits, consumable products or special ordered items.

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ICOM IC-736
HF/50 MHz BASE STATION TRANSCEIVER

The Icom IC-736 is a dynamic Transceiver that's loaded with features that you've asked for including internal antenna tuner for both HF and 50 MHz bands, internal power supply, quick split function with pre-programming offset, and a "Split lock" function. This unit boasts 100 watt output for both HF and 50 MHz bands, 100% duty cycle (MOS FET's in the driver and final amplifier stage), and newly developed DDS circuit for 1 Hz resolution. Also includes dual antenna selector, 4 function meter (power, SWR, ALC, S), separate CW jacks for keyer and paddle, memo pad memories, PBT with notch, RF gain, VOX, Selectable filters, 101 Memories, full/semi break-in, speech compressor, noise blanker, attenuator direct keyboard entry.

Due to fluctuating dollar/yen values, all Kenwood, Icom, & Alinco radios are subject to price changes. Call before ordering.

$3899

ICOM IC-775DSP
NEW!
HF TRANSCEIVER

Superior DSP! The IC775DSP may be fun to operate but it was engineered from the ground up using high-quality components and offering features and performance you'll find nowhere else. Features: 200 W output from power MOS-FET, twin PBT, CW reverse mode, Manual IF notch, Manual APF, newly developed mixer-less PLL, 1 Hz tuning, 3 grade selectivity, pre-amp and attenuator and much more. A high performance wide-range receiver, 100 kHz to 29.9 MHz offers exceptional performance and a high dynamic range of 105 dB. If you're serious about your hobby and want some serious fun, this IC775DSP is for you!

Experience The Quality!

ICOM

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$1499

ICOM IC-738
HF TRANSCEIVER

Icom's new "Next Generation HF" transceiver takes off where the IC-737A left off with all of it's features plus these exciting new ones:
NEW DDS (DIRECT DIGITAL SYNTHESIS): 1 Hz frequency resolution, the analog feeling of fine tuning, superior phase noise blocking characteristics and high dynamic range.
NEW AT-170 ANTENNA TUNER BUILT-IN: 100 kHz preset memories with very high speed tuning, auto retune and sensitive/normal control (tunes to minimum SWR or 1.5:1)
NEW FREQUENCY MANAGEMENT SYSTEM: Pre-programmable offsets, simultaneous display of TX/RX frequencies, XFC (Transmit Frequency Change) and Split lock
100% DUTY CYCLE: 100 W in SSB/CW/FM with an innovative twin fan cooling system
NEW CW CONTEST PACKAGE: Electronic keyer with full break-in (QSK) and separate keyer and paddle jacks.
NEW METER: With PO/ALC/SWR/S meter readings.

The IC-738 continues the great tradition of the IC-737 and more!

$899

ICOM IC-707
HF TRANSCEIVER

For someone just starting out or wanting a simple to use radio, the new IC-707 is a great choice. It has easy to use push-button functions, a large LCD display that won't wash out, an easy-to-hear front-mounted speaker, rugged Icom quality and a price that will fit your budget. Of course it has many of the features found in more expensive radios such as 32 memory channels, dual VFO, RIT, a general-coverage receiver and much more. In short, the IC-707 is the easiest introduction ever to Icom performance and quality.

Popular Accessories:

AH-3: Automatic antenna tuner	*$489*
CT-17: Computer interface	*$109*
UT-30: Tone encoder unit	*$40*
UI-9: FM unit	*$79*
FL-52A: 500 Hz CW filter	*$137*
FL-53A: 250 Hz CW filter	*$137*

Icom IC-706
All Mode Transceiver

NEW!

$1249

The IC-706 is the smallest transceiver ever, making it quite easy to transport from place to place. Superior performance capability allows the IC-706 to be used as your main rig to HF and VHF bands, as well as being used for mobile operation and on DX peditions. This powerful unit easily transmits all of the popular VHF bands-not only 50 to 54 MHz with a full 100 W of output power, but also 144 to 148 MHz operation is possible at 10 W. The IC-706 comes complete with functions as IF shift, CW reverse, CW pitch control, 101 memory channels, as well as a wide range receiver that covers continuous HF to VHF. It also comes equipped with a detachable front panel which allows for microphone connectors providing several mounting options in a building or a vehicle. The IC-706 also has RTTY capability, the first for a transceiver of this class, which also provides all other mode operations such as SSB, CW, AM and FM in all bands. There is already a great demand for this transceiver so don't delay.

Popular Accessories

ICOM CR-502	High Stab Crystal Filter	$76.00
ICOM MB-62	Mounting Bracket-Main Unit	$19.95
ICOM MB-63	Mounting Bracket-Control Panel	$14.00
ICOM OPC-581	3.5M Separation Cable	$48.00
ICOM OPC-589	8 PIN to MIC Adapter	$28.00
ICOM OPC-598	7M at 180 Ext. Cable	$58.00
ICOM OPC-599	7+8 PIN to 13 PIN Adapter	$48.00
ICOM UT-102	Voice Synthesizer Unit	$59.00
COMET SBB-15	2.15/4.5/7.2DB Gain 6M/2M/440 4"11" UHF Mobile Antenna	$9.95
COMET CA HV	7/14/21/28/6M/2M Mobile Antenna	$119.95

TUCKER 29TH ANNIVERSARY

SGC SG-230
Antenna Coupler

A Tuner with the ability to precisely tune any length antenna from -8 to 80 ft-in the HF band. The Smartuner automatically assess and switches 64 input and 32 output capacitance combinations, plus over 250 inductance combinations in a "pi" network. This amazing Smartuner remembers the selected frequency and tuning values, and will automatically re-select those values-in less than 10 ms, each time you transmit on that frequency. The Smartuner comes equipped with an non-volatile memory, B.I.T.E. Indicator, 1.8 to 30 MHz Range, 10 to 150 watts input power, microprocessor controlled and is waterproof.

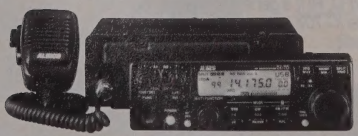
$489

Kenwood TS-50S & TS-60S
Compact Mobile Transceivers

TS-50S (HF) *Plus $50 Rebate Direct From Kenwood* $1039

TS-60S (6m only) $1039

The Kenwood TS-50S/60S have opened up a whole new world in mobile excitement. As the smallest HF/6m transceivers in the world, they can be mounted in a vehicle, taken on a DX-pedition, or even permanently installed as a base station transceiver. Yet despite their compact dimensions, they pack a hefty punch. Maximum power output is 100 W for the TS-50S, 90 W on the TS-60S and there's a powerful cooling fan with heat sink to ensure stable operation. Sophisticated features include DDS with innovative "fuzzy" control, and Kenwood's own AIP. For user-friendly operation on the move there's also a multi-function microphone, a handy menu system and on the TS-50S an optional antenna tuner. All this and more, for they are also equipped with dual VFOs for split frequency/repeater operation.



Alinco DX-70T
HF +50 MHz All Mode Transceiver

NEW!

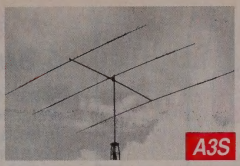
$899

Alinco has released the world's most compact HF +50 MHz transceiver to date. The DX-70T's completely detachable front-panel and the optional remote mount accessory kit will suit a wide range of applications. Packed with versatile features that all Hams value, the DX-70T includes a separate multi-function dial that can change bands, memory channels, and channel spacing. Other features include QRM Eliminators standard, emphasized CW performances, quick offset, speech compressor, SCAN modes, SSB/CW/AM/FM operation, 100 memories, plus much more!

Cushcraft A4S
4 Element Beam

$399

The A4S is the true, high performance tribander. This is the premium antenna with all the features that you want. High gain, low SWR, and wide bandwidth keep the contacts coming in. All U-bolts, clamps and hardware are stainless steel. The A4S has pinned boom sections and formed aluminum brackets to keep elements straight under all conditions and our solid construction keeps the A4S on the tower!



Cushcraft A3S
3 Element Beam

$339

The A3 World Ranger, has become the A3S with all stainless steel hardware. All you need is a lightweight tower and a rotator to enjoy the benefits of the A3S. It's a proven performer in DX-peditions and contests and handles full power from your linear. Construction features include pinned boom sections, heavy duty element clamps with backing plates plus all stainless steel hardware.

Also available: A3WS - 18, 24 MHz 3 Element Beam...$279

30 & 40 Meter Add-On Kits

A743 .....7 MHz/10 MHz kit for A3S.....$129.95

A744 .....7 MHz/10 MHz kit for A4S.....$129.95

A103.....10 MHz kit for A3WS.....$129.95

All items on this page, due to oversize or overweight, are shipped via surface transport.

Cushcraft Rotatable Dipoles

Model	D40	D4	D3	D3W
Price:	$219.95	$249.95	$179.95	$189.95
Frequency, MHz	7	28, 21, 14, 7	28, 21, 14	24, 18, 10
SWR 1.2:1 Typical 2:1 Bandwidth, KHz	200	>350/40>125	>500	>200
Power Rating (W PEP)	2000	2000	2000	2000

Cushcraft Skywalker Monoband HF Yagis

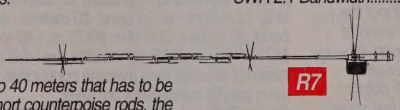
Model	TEN-3	10-3CD	10-4CD	15-3CD	15-4CD	20-3CD	20-4CD	40-2CD
Price:	$109	$169.95	$209	$219.95	$249	$309	$449	$449.95
Frequency, MHz	28-29.7	28.0-29.7	28.0-29.7	21.0-21.45	21.0-21.45	14.0-14.35	14.0-14.35	7.0-7.3
No. Elements	3	3	4	3	4	3	4	2
Forward Gain, dBd	8	8.0	10.0	8.0	10.0	8.0	10.0	5.5
Front to Back Ratio, dB	25	30	30	30	30	30	30	20
SWR 1.2:1 Typical: (2:1 Bandwidth, kHz)	>1500	>1400	>900	500	500	>300	>400	200
Power Rating, Watts PEP	2000	2000	2000	2000	2000	2000	2000	2000

Cushcraft R5

This compact, 17 foot high halfwave has gained popularity because of its reputation for uncanny performance levels and the fit-anywhere convenience of a vertical without ground radials.

Cushcraft R7

This 22 foot marvel packs a punch on 10 to 40 meters that has to be experienced to be believed. With only 7 short counterpoise rods, the R7 will fit just about anywhere without even using ground radials. If you're looking for the most performance in the smallest package then the R7 is for you.



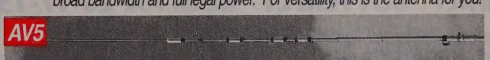
Model	R5	R7
Price:	$289.95	$379.95
Frequency, MHz	28, 24, 21, 18, 14	28, 24, 21, 18, 14, 10, 7
Gain, dBi	3	3
SWR 2:1 Bandwidth	10 m-2 MHz 12 m-100 kHz 15 m-450 kHz 17 m-100 kHz 20 m-350 kHz	10 m-2 MHz 12 m-100 kHz 15 m-450 kHz 17 m-100 kHz 20 m-350 kHz 30 m-50 kHz 40 m-75 kHz
Power Rating, Watts PEP	1800	1800

Cushcraft AP8A
Multiband HF Quarterwave Verticals

The next generation eight-band quarterwave, strengthened with thick wall tubing, up to three layers deep in some sections, and high tensile strength fiberglass. The traps have been beefed up to handle the legal limit and are moisture sealed. You can be up and running on 10 through 80 meters in no time.

Cushcraft AV3 (3 Band) & AV5 (5 Band)
Multiband HF Quarterwave Verticals

The AV3 handles 10, 15, and 20 meters with fine performance and easy assembly. The AV5 works with the popular 10, 15, 20, 40 and 80 meter bands with broad bandwidth and full legal power. For versatility, this is the antenna for you!



Model	AP8A	AV3	AV5
Price:	$209	$94.95	$159.95
Frequency, MHz	28, 24, 21, 18, 14, 10, 7, 3.5	28, 21, 14	28, 21, 14, 7, 3.5
Electrical Wavelength	1/4	1/4	1/4
SWR 1.2:1 Typical 2:1 Bandwidth, KHz	Full Band Except 40 M>150 kHz & 80 M>80 kHz	Full Band	Full Band Except 80 M>70 KHz
Power Rating, Watts PEP	2000	2000	2000

HUSTLER MODEL 4-BTV

4 BAND HF VERTICAL

$119

- Bands: 10-15-20-40 meters
- Length / Weight: 21' 5" / 15 lbs
- Power Capability: Full legal limit SSB/CW

HUSTLER MODEL 5-BTV

5 BAND HF VERTICAL

$149

- Bands: 10-15-20-40 & 75 or 80 meters
- Length / Weight: 25' / 17 lbs
- Power Capability: Full legal limit SSB/CW

HUSTLER MODEL 6-BTV

6 BAND HF VERTICAL

$169

- Bands: 10-15-20-30-40 & 75 or 80 meters
- Length / Weight: 24' / 16.5 lbs
- Power Capability: Full legal limit SSB/CW

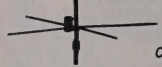
HY-GAIN DX 77

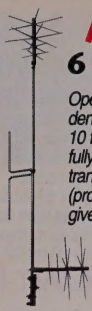
ADVANCED VERTICAL WINDOM

NEW!

$349

The new Hi-Gain DX 77 Advanced Vertical Windom with advanced features surpassing any verticals currently on the market. The mechanical design is superior to any other. The DX 77 offers high power capabilities and 55% greater bandwidth than competitive verticals on 20 and 40 meters. It provides no-compromise performance without the need for ground radial wires and puts the world at your fingertips on HF ham bands, 10 through 40 meters, including the WARC bands! Other great features include: 750 W of continuous RF output; automatic band switching and low angle of radiation allowing for enhanced DX capabilities.





MFJ-1796

6 BAND VERTICAL

$169

Operate 40, 20, 15, 10, 6 and 2 meters with this ground—independent halfwave vertical antenna—no radials ever needed. It's only 10 feet high and has a tiny 24 inch footprint. Frequency selection is fully automatic-no moving parts, nothing to adjust, all you do is transmit. It handles up to 1500 watts PEP. It's quick to put together (probably less than an hour) and built to last. This antenna really gives you the most for your money—get one today!

BUTTERNUT HF9VX

9 BAND VERTICAL ANTENNA

$269

Covers 6-10-12-15-17-20-30-40-80 meters. The HF9VX uses longer active element lengths for higher radiation resistance and greater efficiency on more bands than any of the so-called halfwaves.

BUTTERNUT HF6V

MULTIBAND VERTICAL ANTENNA

Compare Active Element Lengths

Band	HF6V	Typical multiband trap verticals
10 M	26 ft. (.75 λ)	~ 8 ft. (.23 λ)
15 M	12 ft. (.26 λ)	~ 10 ft. (.21 λ)
20 M	26 ft. (.375 λ)	~12 ft. (.17 λ)
30 M	26 ft. (.264 λ)	
40 M	26 ft. (.189 λ)	~ 20 ft. (.145 λ)
80 M	26 ft. (.097 λ)	~ 25 ft. (.094 λ)

$219

Electrical and Mechanical Specifications:

Shipping weight: 12 lbs./5.4 kg., Height: 26 ft./7.9 M, Feedpoint impedance: Nominal 50 Ω through included matching line (includes RF connectors for direct connection to any length of 50 Ω cable terminated in PL-259), VSWR at resonance: 1.5:1 or less on all bands in typical ground level or above ground installations, Bandwidth for VSWR of 2:1 or less: 10 meters - 1500 kHz, 15 meters - entire band, 20 meters - entire band, 30 meters - entire band, 40 meters -280 kHz, 80/75 m. - 40 to 100 kHz

NOTE: These SWR bandwidths are what may be expected over ground systems of better than average conductivity. Over average or less efficient even greater bandwidths are likely.

Power Rating: Legal limit SSB and CW all bands

Wind Loading: 1.6 sq. ft./.49 sq. M

Unguyed Wind Survival Rating: 80 m.p.h./129 k.p.h. assuring no icing and precipitation

All items on these two pages, due to oversize or overweight, are shipped via surface transport.

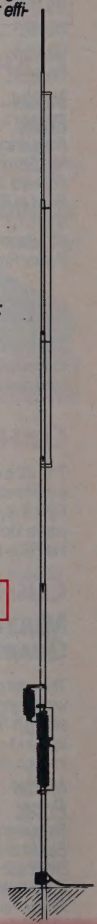
BUTTERNUT HF5B

COMPACT "BUTTERFLY" BEAM FOR 20-17-15-12-10 METERS

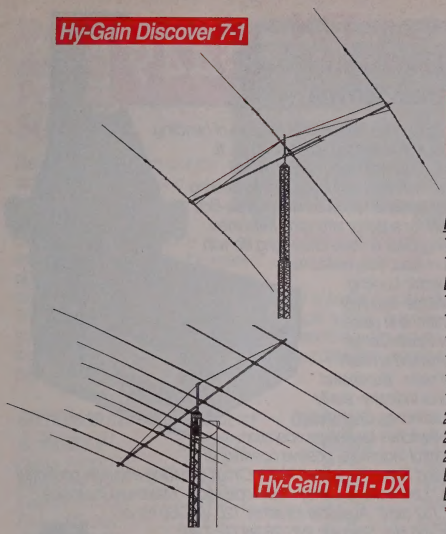
$335

Electrical and Mechanical Specifications

Wingspan: 12 ft. 6 in./3.84 meters, Boom Length: 6 ft./1.83 meters, Turning Radius: 6.94 ft./2.12 meters, Vertical Spreaders: 6 ft./1.83 meters, Surface Area: 3 sq. ft./.3 sq. meters (nominal), Power Rating: 1200 Watts PEP input power to the final (SSB), Bandwidth: VSWR 2: 1 or less 1.5 MHz on 10 meters, all of 12, 15 and 17 meters 200 kHz on 20 meters, VSWR at Resonance: 1.5:1 or less, Gain: 3+ dBd 20 meters, up to 5 dBd on other bands except 17 meters, where the antenna acts as a rotary dipole., Front-to-Back: Up to 20 dB; Front-to-Side: Up. to 30 dB, Tuning System: No lossy traps; entire element length active on all bands; no tuner required, but may be used with one., Mast Size: Accommodates up to 1.5 inch (3.8 cm.) mast., Rotor System: May be turned with a TV rotor., Hardware: Stainless steel, except u-bolts (plated)., Wind Survival: 80 MPH (assumes no ice or rain loading)., Minimum Recommended Ht: 30 ft. (9.2 meters) above ground, Feedline Requirements: Nominal 50 Ω; RG8U or RG8–X.



Hy-Gain Discover 7-1



Hy-Gain TH1- DX

hy-gain®

HY-GAIN TRIBAND/MONOBAND DIRECTIONAL ANTENNAS

Model #	Max. Gain (dB)	Max. Front-To-Back Ratio (dB)	Number Of Elements	Bandwidth @ 2.1 VSWR (MHz)	Bands (Meters)	Price
TH11DX	9.2	27	11	—	20,17,15,12,10	$959
TH7DX	9.6	27	7	—	20,15,10	$709
EXP14	8.8	27	4	—	20,15,10	$469
TH3JRS	8	25	3	—	20,15,10	$289
TH5Mk2	9	27	5	—	20,15,10	$599
103BAS	5.7†	25	3	1.5	10	$115
105CA	8.6†	36	5	1.5	10	$219
153BAS	5.7†	25	3	6	15	$159
155CA	7.5†	40	5	4	15	$329
205CA	6.5†	31	5	5	20	$589
203BAS	5.0†	25	3	6	20	$259
204BAS	6.0†	28	4	5	20	$429
DISC7-1	1.7	35*	1	22	30,40	$229
DISC7-2	6.5	15	2	187	40	$519

*Front to side ratio †Rated in dBd

AEA ISOLOOP MODEL 10-30 HF ANTENNA

$314

Operate your favorite HF band (10 to 30 MHz continuous) from areas with restrictive zoning ordinances or apartments and condos. Or take it with you on vacation, it's the ideal go-anywhere portable antenna. Rated up to 150 watts.

All items on this page, due to oversize or overweight, are shipped via surface transport.

LAKEVIEW WD4BUM HAM STICKS FOR HF MOBILE OPERATION

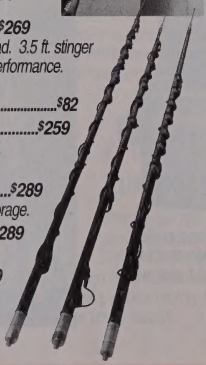
$19.95 EA.

#9175	75 Meters, 10 kHz Bandwidth
#9140	40 Meters, 60 kHz Bandwidth
#9120	20 Meters, 175 kHz Bandwidth
#9117	17 Meters, Full Band Coverage
#9115	15 Meters, 350 kHz Bandwidth
#9110	10 Meters, 1 MHz Bandwidth
#9106	6 Meters, 2 MHz Bandwidth

OUTBACKER HF MOBILE ANTENNAS

These great new antennas from deep in the heart of "the land down under" provide sheer mobiling enjoyment! One antenna does it all from 80-10m.

AVAILABLE IN 5 DIFFERENT STYLES:



Outbacker Perth ***$269***
7.5 ft. tall. 80-10m plus WARCs. 150 watts PEP. 3/8-24 thread. 3.5 ft. stinger retracts into 4 ft. mast for garaging or trunk storage. Superb performance. Perfect for trunk mounting. Low wind resistance.

OBSB super-strong spring for PERTH ***$82***

OB8 ..... ***$259***
6 ft. tall. 80-10m plus WARCs. 300 watts PEP. 3/8-24 thread. Ideal for all applications.

OBS8 ..... ***$289***
Same specs. as OB8, but it splits into two sections for easy storage.

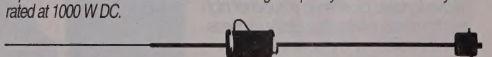
OB8HP ***$289***
500 W PEP version of OB8

Outbacker JR. OB8JR8 ..... ***$229***
4 ft. tall 80-10m plus WARCs. 150 watts PEP 3/8-24 thread. Terrific for hatchback or roof mounting and RVs.

LAKEVIEW CAROLINA BUG KATCHER HF MOBILE ANTENNA

$89.50

Continuous coverage of all bands between 7 to 31 MHz. The ultra Hi Q coil gives 1 to 2 "S" unit improvements over the Hi Q Ham Sticks which are 1 to 2 "S" unit improvements over the best known brand of high frequency coil. Conservatively rated at 1000 W DC.



$49.95

LAKEVIEW QUAD MAGNET MOUNT

3/8 x 24 TPI mount. For over 825 lbs. of holding power. Order Lakeview#376.

$699

HY-GAIN HAM V
ROTOR AND DIGITAL CONTROL UNIT

RS-232 • Designed for medium-sized antenna arrays of up to 15 square feet (1.4 sq. meters) of wind loading, the HAM V will handle mast sizes to 2.0625". State-of-the-art features include automatic operation of brake and rotator, computer control with RS-232 passthrough, compatibility with many logging and contest programs, 6 pre-sets, 1° heading accuracy, weatherproof rotator connector and 8-pin plug on control unit to eliminate the old terminal strips.

HY-GAIN T2X TAILTWISTER
ANTENNA ROTOR

$449

The world famous Tailtwister is capable of handling antennas with wind load areas of 20 sq. ft. (1.9 m²). Thickwall Castings & 138 Ball Bearings- handles large loads. Triple Bearing Race- exceptional lateral control plus six-Bolt Assembly for superior strength. Machined Steel Ring Gear & Drive Gear- long life with maximum load, time tested durability. Electric Locking Steel Wedge- securely locks antenna in place. North or South Center Scale- marked on both sides of plate. Illuminated Directional Indicator- easily locates antenna; Snap-Action Control Switches for lifetime operation. LED Control Indicators- positive operational signals and Zener Regulated Meter Circuit providing accurate positional readout. Low Voltage Control- safe operation. Maximum mast size 2.0625" (52 mm). Available for either 120 VAC/60 Hz or 220 VAC/50 Hz. Shipping Wt: 28 lbs (12.7 kg).

hy-gain®

HY-GAIN HAM IV
ANTENNA ROTOR

$369

Designed for medium communications antenna array of up to 15 sq. ft. (1.4 m2) wind load area. Bell Rotator Design-total weather protection. Dual 98 Ball Bearing Race- proven support system. Machined Steel Ring Gear. Machined Steel Ring Drive Gear System- time tested durability. Electric Locking Steel Wedge- securely locks antenna in place. North or South Center Scale- in unit. Illuminated Directional Indicator- easily locates antenna position. Zener Regulated Meter Circuit- accurate positional readout. Snap-Action Control Switches- lifetime operation. Low Voltage Control- safe operation. Maximum mast size 2 .0625" (52 mm). Available for either 120 VAC/60 Hz or 220 VAC/50 Hz. Shipping Wt: 24 lbs. (11.0 kg).

All items on this page, due to oversize or overweight, are shipped via surface transport.

EMOTO 105TSX
ANTENNA ROTOR

$309

The Emoto 105TSX stands ready to move forward by offering a superior high performance rotator that easily exceeds the capabilities and ergonomics of the old Alliance HD73. It will easily handle tri-banders such as the TH3's and mono-banders like the 105BAS and even KT34A's with room to spare. Features include an extremely rugged planetary drive system, a high tech design rotating unit with automatic brake for superior strength and dependability, and an attractive, easy to read backlit circle controller that features a large 360° compass display… a real attention getter in the shack! Full 1 year warranty.

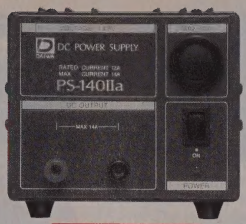
- *Rotation Torque: 37 foot lbs*
- *Square Feet: 11*
- *Brake Torque: 215 foot lbs*
- *Vertical Weight: 660 lbs*

CREATE CR18
6' ROOF TOWER

$249

This roof tower is constructed of high grade aluminum with galvanized steel bracing for added stability and strength will easily accommodate your antenna requirements. It will easily support VHF antennas, HF tri-banders and OSCAR systems. Rotors will easily mount inside the tower. Ht: 5'10"; max. wind load: 21 sq. ft. at 90 mph; base width: 31.75"; max. vert. load: 440 lbs.; wt: 26 lbs.

Daiwa & Astron Power Supplies



Daiwa PS140IIa

Daiwa power supplies use the latest hi-tech circuitry and components providing reliable, regulated DC power. Short circuit protection protects the power supply in the event of accidental shorting. Crowbar protection protects your rig in the unlikely event of power supply failure. They exhibit excellent regulation, 2.5 mV ripple typical; twice as good as most other brands. Applicable to laboratory, industry as well as Amateur Radio use, Daiwa power supplies give proven reliability and value.

Manufacturer & Model #	Maximum Current	Continuous Current	Price
Daiwa PS-50TM	5.2 A	4.2 A	$44.95
Daiwa PS-140II	14 A	12 A	$89.00
Daiwa PS-120M	12 A	9.2 A	$99.00
Daiwa RS-300	30 A	24 A	$149.00
Daiwa PS-400X	40 A	32 A	$199.00
Astron RS-5L	5 A	4 A	$54.00
Astron RS-10A	10 A	7.5 A	$69.00
Astron SL-11R	11 A	7 A	$74.00
Astron RS-12M	12 A	9 A	$94.00
Astron RS-20A	20 A	16 A	$99.00
Astron RS-20M	20 A	16 A	$119.00
Astron RS-35A	35 A	25 A	$149.00
Astron RS-35M	35 A	25 A	$189.00
Astron RS-50A	50 A	37 A	$239.00

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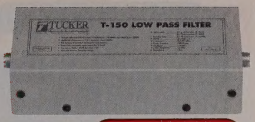
Tucker T-150

2500 Watt Low-Pass Filter



$79.95

This is the FIRST 2500 W continuous low-pass filter for the Amateur market. Perfect for use with linear amplifiers, this filter provides the ultimate protection against TVI caused by harmonics. As in our T-100, a nine pole Chebyshev filter is utilized. Additional attenuation to TV IF frequencies above 40 MHz is provided. As with our other Tucker Brand Products, construction is solid, American built-to-last quality. 1 year warranty and our SatisfactionPlus guarantee. Passband: 0-30 MHz; Cutoff Frequency: 35 MHz; Power Capacity: 2500 W; Impedance: 52 Ohms; Insertion Loss: 0.25 dB at 30 MHz; VSWR: Less than 1.5:1.

Tucker T-100

1500 Watt Low-Pass Filter

$49.95

Every shack should have a low-pass filter to insure against TVI from harmonic interference. The new Tucker T-100 Low-Pass Filter is the finest 1500 W filter available. It utilizes a nine-pole Chebyshev design with a cutoff frequency of 35 MHz. Includes additional attenuation to TV IF frequencies above 40 MHz. Comes with a 1 year warranty and our exclusive SatisfactionPlus warranty. Made in USA to last for years. Passband: 0-30 MHz; Cutoff Frequency: 35 MHz; Attenuation: 42.17 MHz (color IF), -70 dB; 45.75 MHz (video IF), -70 dB; 55.25 MHz (channel 2 video), -70 dB; Worst case at 65 MHz, -60 dB; Power Capacity: 1500 Watts continuous; Impedance: 52 Ohms; Insertion Loss: 0.25 dB at 30 MHz; VSWR: Less than 1.5:1.

NEW!

JPS NIR-12

Dual DSP Reduction Unit

The JPS NIR-12 is an advanced audio signal processor designed to provide the user with maximum flexibility to eliminate or reduce most types of interference from voice. Features: Superior noise reduction on audio signals; Both spectral subtraction and dynamic peaking noise reduction provided ; Manual AUTOMATIC NIR® control; operates on audio from any radio receiver; Dual digital signal processors; All modes usable simultaneously. Also allows access to the DUAL DSPs via RS-232 for experimenters.

$349.95

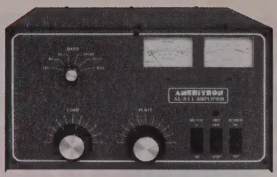
MFJ 784B

Tunable DSP Filter

$199

The Model 784 automatically eliminates heterodynes, reduces noise and interference simultaneously on SSB, AM, CW, Packet, AMTOR, PACTOR, RTTY, SSTV, WeFAX, FAX, weak signal VHF, EME, satellite—nearly any mode! Features automatic notch filter, adaptive noise reduction, tunable highpass/lowpass filters, tunable bandpass filters, 15 pre-set filters (use factory set or program your own), plus much more! The MFJ 784 Tunable DSP Filter… order yours today!

MFJ



AMERITRON AL-811/AL-811H

HF AMPLIFIERS

AL-811 $589

AL-811H $699

This series of amplifiers gives you plenty of output power to bust through QRM. You get a quiet desktop linear that's so compact it'll slide right into your operating position- you'll hardly know it's there... until QRM sets in. And you can conveniently plug it into your nearest 120 VAC plug with no special wiring. The AL-811A uses 3 economical 811-A tubes to generate 600 W PEP (500 W CW) while the AL-811H uses 4 tubes to generate 800 W PEP (600 W CW). All tubes are mounted vertically to prevent tube shorting and prolong tube life. 160-15m.

AMERITRON AL-80B

HF AMPLIFIER

$1069

The AL-80B can double your average SSB power output. For cooler operation, RF Bias completely turns off the 3-500Z tube between words, saving hundreds of watts wasted as heat. 1000 W on SSB, 800 W on CW, 500 Watts on RTTY. It's a compact 8 1/2" x 14" x 15 1/4". 160-15m, 90 to 140/205 to 250 VAC. QSK compatible with QSK-5PC.

QSK-5PC...QSK Unit.....$229

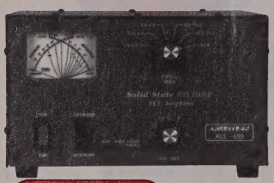
AMERITRON AL-1200

HF LINEAR AMPLIFIER

$1899

Get ham radio's toughest tube with the Ameritron AL-1200- the Eimac 3CX1200A7. It has a 50 watt control grid dissipation- 12 times tougher than the 4 watt rating of the 3CX800A7- yet you get the same full legal output as you get from a pair of 3CX800A7's. What makes it stand out from other legal limit amplifiers? A super heavy duty power supply that loafs at full legal power- it can deliver power of more than 2500 watts PEP two tone output for a half hour!

All items on this page, due to oversize or overweight, are shipped via surface transport.

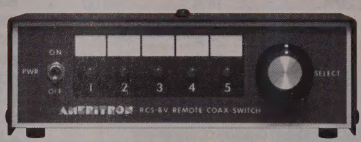


AMERITRON ALS-600

SOLID STATE FET HF AMPLIFIER

$1099

No tuning, no fuss, no worries- just turn on and operate. The revolutionary ALS-600 is amateur radio's only linear amplifier that uses four rugged TMOS RF power FET's- it gives unequaled no tune performance. No longer do you have to worry about band switching and tuning up. The ALS-600 is SWR protected and works off 50 VDC at 25 A which is supplied by the included ALS-600PS power supply. 160-15m.

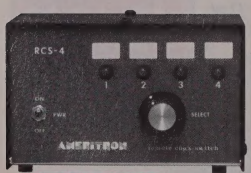


AMERITRON RCS-8V

5 POSITION REMOTE COAX SWITCH

$149

This remote coax switch lets you remotely switch up to 5 separate antennas while using a single coax feedline! It consists of two units- the weatherproof switching box that mounts on your tower or mast and the control unit with LED's that's placed at your operating position. Handles 5 kW (@ ≤30 MHz) and 1 kW (@ 150 MHz). Lexan scratchproof front-panel has a markable surface for labeling your antennas. Operates from 120 VAC. SO-239 connectors.



AMERITRON RCS-4

4 POSITION REMOTE COAX SWITCH

$139.95

Remote controlled coax switch that selects one of four outputs by supplying all control voltages through the coax. Eliminates control cables giving you a fast, neat and inexpensive installation. The attractive console has bright LED antenna selector indicators and a steel enclosure provides 100% shielding to prevent RFI and TVI. Covers 1.8 to 30 MHz and handles 2500 W PEP. Operates from 120 VAC power sources.

AMERITRON AL-82

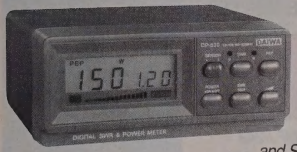
HF LINEAR AMPLIFIER

$1799

This linear gives you full legal output using a pair of Eimac 3-500Z's. Some competing amplifiers using dual 3-500Z's don't give you 1500 watts because their lightweight power supplies can't use the tubes to their full potential. An 1800 watt continuous commercial rated hypersil transformer is standard with heavy duty rectifiers in a full wave bridge supply with computer grade capacitors. The cooling system keeps the components and tubes safely below the manufacturer's ratings, even at full output. Grid current, plate voltage, plate current and drive power meter readings. 18 1/2" x 17" x 10", 76 lbs. 160-15m, 240 VAC. QSK compatible with QSK-5PC.

Daiwa DP830
Digital HF/VHF/UHF SWR/PWR Meter

$319



The DP830 is the ultimate SWR/PWR meter for home station use. It covers everything between 1.8 and 525 MHz, up to 1.5 kW! The digital display shows power digitally and SWR digitally as well as by bar graph. It will display forward power/average power/PEP and can confirm SWR by a varying beep tone. It will even display 4 different times with its clock function! Get the best with the DP 830!

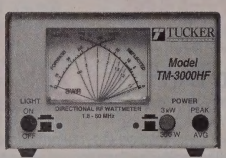
Daiwa DP810
Digital HF SWR/PWR Meter

$239

No longer do you have to estimate an analog SWR or power reading, get it with the accuracy and exactness of a digital display. The large LCD displays forward power and VSWR by digit and bar graph simultaneously. It will handle up to 1.5 kW and displays PEP and average power as well. Each SWR reading can be confirmed by a varying beep tone (perfect for visually impaired operators). Step up to the world of digital with the DP810. Requires 13.8 VDC.

Tucker TM-3000HF
1.8-60 MHz Cross-Needle SWR/PWR Meter

$69



Displays forward power, reflected power and SWR SIMULTANEOUSLY on its dual movement meter system! TRUE SHIELDED DIRECTIONAL COUPLER assures accuracy. The meter is backlit and displays either peak or average power in 300 and 3000 W scales from 1.8-60 MHz. Construction is first-rate including a scratch and chip resistant case and front-panel. Your complete satisfaction is assured by our exclusive SATISFACTION PLUS GUARANTEE.

TUK AC-2 AC Adapter.....$9.95

Daiwa NS660PA
HF Cross-Needle SWR/PWR Meter With Remote Sensor Capability

$189

The NS660PA introduces the exclusive Daiwa Remote Sensing System that allows you to use remote sensors on different antennas/frequencies and switch them in and out. One meter can cover all of your antennas! It will handle up to 3 kW in three scales: 30/300/3 kW and will hold a peak SSB reading for about 30 seconds. This model covers 1.8 to 150 MHz. Requires 9 to 13.8 VDC for backlight.

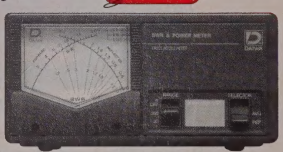
Sensors:

U66H.....1.8 to 150 MHz.....$79

SS2.....Sensor Switch.....$39

Daiwa CN101
HF Cross-Needle SWR/PWR Meter

$89

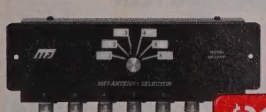


World famous Daiwa cross-needle meters eliminate the major headache of using your antenna tuner: the constant recalibration of your VSWR meter- and throwing the FWD/REV switch back and forth as you change bands, modes and power levels. With cross-needle metering, you get hassle-free, full time power, reflected power and VSWR readings simultaneously at a glance. The CN-101 covers 1.8 to 150 MHz with up to 1.5 kW power-handling capability. It has 3 scales: 15/150/1.5 kW and comes standard with PL-259 connectors. Backlit display (requires 12 V).

MFJ-1704
4-Position Antenna Switch

$54.95

Mount this 4-position SO-239 switch on your operating desk and you'll have more than the convenience of being able to instantly select any of 4 antennas or the center ground position— you'll also get the replaceable lightning surge protection device that helps protect against distant lightning induced surges and static. It handles a full 2.5 kW PEP. Extremely low SWR. Isolation is rated from better than 60 dB at 30 MHz to better than 50 dB isolation at 500 MHz. Negligible insertion loss. 50 Ω.



$31.95

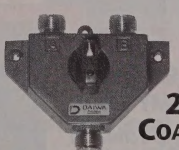
MFJ-1701
6-Position Antenna Switch

Six position switch. 1.8 to 30 MHz. Unused terminals grounded. SO-239 connectors. Handles 2 kW PEP, 1 kW CW. 50 to 75 Ω loads.

Daiwa CN410M
HF Mobile Cross-Needle SWR/PWR Meter

$89

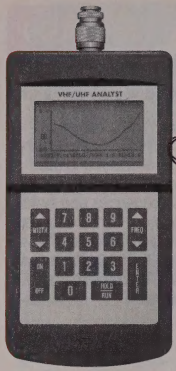
This super-compact mobile meter is compact enough for both mobile and base use and includes a backlit display. It covers 3.5 to 150 MHz up to 150 W. 2 scales: 15 W/150 W, PL-259 connectors.



Daiwa CS201
2-Position Coax Switch

$21.95

The CS201 will handle 2.5 kW PEP and up to 1 kW CW. It features over 60 dB of isolation and less than 0.2 dB of insertion loss. It covers frequencies up to 600 MHz. Cast aluminum case and all unused terminals are grounded. SO-239 connectors.

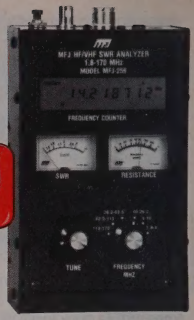


AEA SWR-121
SWR Analyzer

$349

RS-232 • Covers from 1 to 30 MHz while providing a graphical display (SWR versus frequency) of your HF antenna's performance. SWR and return loss at the center frequency and the current scale factor are also given. Features RS-232 interface for remote control, remote display, and saving of plots; internal keypad beeper which also gives audible indication of SWR, and built-in self-test and calibration functions. Requires 6 AA batteries or DC adapter.

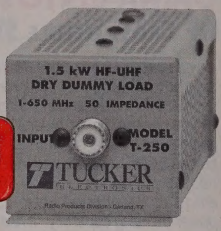
MFJ-259
HF/VHF SWR Analyzer With RF Resistance Meter



$209

Does a 2:1 SWR mean 25 Ω or 100 Ω? The new MFJ-259 tells you at a glance. It has ALL of the features of the MFJ-249 plus this great feature. You can measure feedpoint resistance up to 500 Ω at minimum SWR instantly.

Tucker T-250
1500 Watt Dry Dummy Load



$54.95

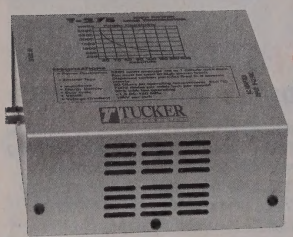
From DC to 650 MHz, the T-250 will handle 100 watts continuously, 1500 watts for 10 seconds. Utilizes special ceramic constructed resistor for superior performance. VSWR is ≤1.3:1. It's compact, lightweight, and attractive! SO-239 connectors.

MFJ-249
SWR Analyzer With LCD Frequency Counter

$179

MFJ's newest, most versatile SWR Analyzer covers more frequencies than any MFJ Analyzer before: 1.8 to 170 MHz continuously. It has a built in 10-digit frequency counter that makes reading SWR in the sun easy. You get three instruments in one... a low distortion RF signal generator, a high accuracy 170 MHz frequency counter, and an SWR Analyzer. Measures 4" x 2.5" x 6.75".

MFJ-29: Carrying Case for 249/259 ..... $19.95

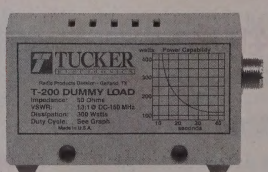


Tucker T-275
2500 Watt Fan-Cooled Dry Dummy Load

$1295

The new T-275 is the highest-power rated dummy load on the market today! Handles 2500 watts average for a full minute! Use of special ceramic resistors offers better performance than carborundum resistors used in most dummy loads. DC-150 MHz, SWR of ≤1.3:1, SO-239 connectors. Built to last in the USA.

Tucker T-200
300 Watt Dry Dummy Load



The T-200 makes tuning up a breeze. It handles 300 W with an SWR of ≤1.5:1 from DC-600 MHz. Utilizes special ceramic constructed resistor for outstanding performance! SO-239 connectors. Attractive blue and gray finish. Built to last in the USA. One year warranty and our Tucker SatisfactionPlus guarantee.

$27.95

MFJ-207
HF SWR Analyzer

$79

Gives a complete picture of antenna SWR over an entire band— without a transmitter, SWR meter or any other equipment! Just plug your antenna into the coax connector, set your SWR analyzer to the frequency you want and read your SWR. Includes a low distortion RF generator that covers 10 to 160 meters and a frequency counter output. Uses 9 volt battery or AC adapter. 7.5" x 2.5" x 2.25".

MFJ-901B $54.95

200 W HF Tuner

The smallest and most affordable tuner. Matches dipoles, vees, random wires, verticals, mobile whips, beams, balanced and coax lines continuously from 1.8 to 30 MHz. Excellent for matching solid state rigs to linears. Efficient airwound inductor gives you lower losses and more power. Includes SO-239 connectors for transmitter and coax, binding posts for random wire or balanced lines, and a wing-nut ground connection. A 4:1 balun for balanced lines is also built in. 5" x 2.5" x 6".

MFJ-401C $49.95

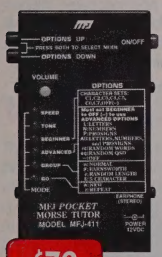
Econo Keyer

Based on the proven Curtis 8044 ABM IC, this compact little keyer lets you send iambic, automatic, semi-automatic, or manual. Features dot-dash memories, self-completing dots and dashes, jam-proof spacing, and RF-proof operation. You have easy access to weight, volume, and speed controls. Works with all rigs and even has a tune control to key your transmitter. Uses 9 V battery or AC adapter. Measures only 4" x 2" x 3.5".

MFJ-422C $129

Keyer/Bencher Paddle Combo

America's most popular keyer has the best of both worlds— a deluxe MFJ keyer in a compact configuration that fits right on the Bencher iambic paddle! Gives you the proven Curtis 8044 ABM IC, is adjustable in weight and tone and has front-panel volume and speed controls (8 to 50 WPM). You also get built-in dot-dash memories, speaker, sidetone and push button selection of semi-automatic/tune or automatic modes. Keys all rigs tube and solid-state. Requires 9 V battery or 110 VAC with adapter.

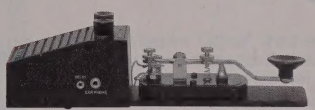


MFJ-411 $79

Personal Morse Code Tutor

This pocket size tutor takes you from zero code speed with a beginner's course to extra class with customized code practice. A random QSO mode lets you practice copying plain English QSO's to get you ready for your FCC code exam. You can even customize random practice sessions by selecting letters, numbers, punctuations or prosigns or in any combination. You can vary speed from 5 to 60 words per minute and set volume and sidetone from 300 to 3300 Hz. You can take it anywhere because it's only 3 x 1.125 x 5.5 inches. Uses a 9 V Battery or AC Adapter.

MFJ



MFJ-564 $49

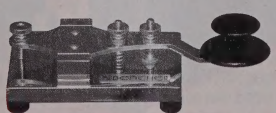
Deluxe Iambic Paddle

Features a full range of adjustments in tension and contact spacing, self-adjusting nylon and steel-needle bearings, contact points that almost never need cleaning, precision machined frame and non-skid feet. Gray base.

MFJ-557 $24.95

Deluxe Code Practice Oscillator

Deluxe Morse straight key for code and sending practice features a heavy steel base, tone and volume controls, built-in speaker and an earphone jack. Perfect for those learning the code and practicing for license exams. 8.5" x 2.25" x 3.75". Black.

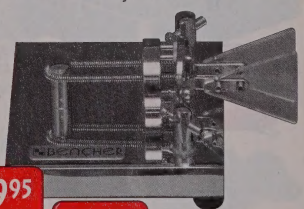


Bencher Straight Keys

$74.95 **RJ-1** *(Chrome Parts, Black Base)*

$84.95 **RJ-2** *(Chrome Parts, Chrome Base)*

For those that prefer straight key operation, Bencher has designed the RJ Series. Although conventional designs were studied, no effort was made to copy them. Rather the goal established by the engineering team was that of creating a product that would utilize modern materials and manufacturing techniques to meet traditional needs. For example, oil impregnated centered bearings are used for the pivot points and stainless steel adjustment screws are used throughout. A complete range of locking adjustments of all movements and tensioning is provided. Perhaps the finest hand-keys ever produced.



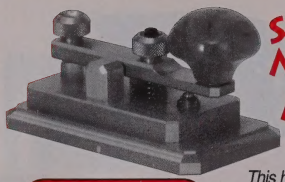
Bencher Iambic Paddles

$79.95 **BY-1** *(Black Base)*

$99.95 **BY-2** *(Chrome Base)*

$259.95 **BY-3** *(Gold-Plated Base)*

Ask anyone who operates CW with an electronic keyer and they will agree: there is nothing finer than the feel of a Bencher Paddle. The adjustable contact point spacing and wide range of tension adjustments lets you adjust the paddle for your "fist". The Lucite paddles are machine-polished for silky feel. The main frame, contact posts, spring post and bearing ring are all machined for durability and rich appearance- the Bencher Paddle looks as good as it works! It has a heavy steel base and non-skid feet for solid-as-a rock non-slip performance. Accept no imitations- GET A BENCHER!



SCHURR-MORSETASTEN MINI KEY

SMALL KEY

$189.95

This hand crafted mini-key is a smaller version of the MMK. It features brass and wood construction and is a fine addition to any shack or key collection.

SCHURR-MORSETASTEN MMK

MEDIUM HAND KEY

A mid-size straight key with a wooden knob and solid brass base. The wood knob may be either mahogany or cherry. A beautiful addition to any rig. Made in Germany.

$179.95

SCHURR-MORSETASTEN MSK

LARGE HAND KEY

A full-size solid brass straight key mounted on a presentation grade mahogany base. Hand-crafted for the most discriminating operator and collector. If you'd rather drive a Cadillac then a Chevy, then this is the key for you. Quality German engineering.

$269.95

SCHURR-MORSETASTEN PORT WABBLER

IAMBIC PADDLES

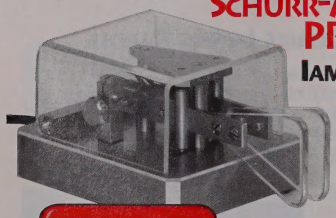
This universal wabbler is designed for the traveling ham. It is about 25% smaller than the Profi. Like the Profi, it features solid brass construction and a dust cover. Made in Germany.

$199.95

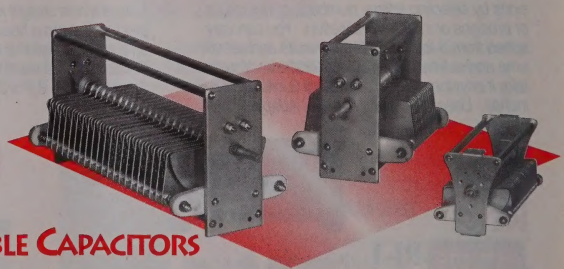
SCHURR-MORSETASTEN PROFI

IAMBIC PADDLES

The perfect key for the discriminating CW operator. Constructed of solid brass, complete with a dust cover and three-conductor cable. Fine German engineering.



$239.95



HIGH VOLTAGE AIR DIELECTRIC VARIABLE CAPACITORS

Model	Working Voltage	Capacitance Range (pF) Min.	Max.	Dimension (mm) Length	Width	Height	Shaft (mm) Diam.	Length	Gap (mm)	Price
CB-A-300	5.0 kV	47	300	303	152	168	9.5	46	5	$99.95
CB-A-500A	5.0 kV	75	500	405	152	168	9.5	46	5	$109.95
CB-A-1400	1.2 kV	40	1,400	260	152	168	9.5	60	1.2	$89.95
CB-B-250	3.0 kV	32	250	237			6	30.7	3	$49.95
CB-B-600	1.5 kV	32	600	190			6	30.7	1.5	$49.95

CENTAUR ELECTRONICS BALUNS

High performance, state-of-the-art designs. These come with a "Lifetime Warranty" from Centaur.

B11W10-50 Balun:.....5-50 MHz, heavy duty, 3 kW SSB, 1:1 Dipole.....$65
B11Y10-50 Yagi Balun:.....5-50 MHz, 2 kW CCS (4 kW peak), 1:1 Yagi.....$65
B41LW10-50 Balun:.....Ladder Line/Coax Type, 3 kW over .5-50 MHz.....$80
B41LY10-50 Balun:.....4:1 Yagi Balun, 2 kW CCS (4 kW peak), .5-50 MHz.....$80
CCS5:.....Center Antenna Coaxial Support.....$19.95

CALL NOW: 800-559-7388

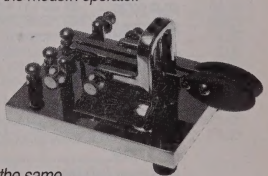
VIBROKEYER EK-1/IAMBIC BRASS RACERS

The Vibroplex Brass Racer-EK-1, look carefully, you may not notice that this paddle is also a keyer. Concealed in the base is a fully iambic, dot-dash insertion, and adjustable speed control keyer using the Curtis 8044 chip. Nearly invisible but a convenient, space saving portable keyer/paddle unit. Vibroplex quality and pride throughout. The perfect unit for mobile, DXpedition, or just plain economical fun.
The Vibroplex Brass Racer-Iambic, is a departure from our traditional style. A truly distinctive new design of iambic paddle; crafted from solid brass and mounted on a base of polished hardwood. The paddle tension can be customized to the individual operator's precise feel with a single twist of our unique tensioning system. No screws, no springs; just set it and forget it. A lifetime of smooth, easy operation. Experience the pride of owning a Vibroplex and now a new Vibroplex look.
Available in two models:

Brass Racer EK-1: same as Brass Racer Iambic but includes a built-in electronic Iambic keyer.....$145
Brass Racer Iambic: solid lacquered brass mounted on a hardwood base.....$89.95

VIBROPLEX IAMBIC

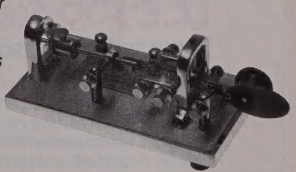
The Vibroplex Iambic paddle is the modern offspring of a true part of history...the Vibroplex "Original". It is a response to the many requests of operators from around the world to bring the Vibroplex tradition into the world of modern telegraphy. Designed to incorporate that traditional Vibroplex look, with the pride of old-time quality, we present to you the finest, modern Iambic paddle anywhere. Any paddle will allow the user to benefit from automatic dot/dash insertion of the modern keyer, but no other paddle does it with such effortless ease and traditional good looks. Just compare! Vibroplex distinction and pride for the modern operator.
Available in three models:



Iambic Presentation: 24K gold plated brass plate on a highly polished chrome base with bright chrome top parts. Silky smooth movements are jeweled as in fine Swiss watches.....$249.95
Iambic Deluxe: same as Presentation but without the 24K gold plated brass plate.....$169.95
Iambic Standard: a neat, crisp textured finish gray base with bright chrome top parts.....$129.95

VIBROPLEX ORIGINALS

The Vibroplex "Original" was invented by Horace G. Martin in 1890. This design, with little modification, is made today by the same company using the same tools and dies as this early model. Modern day operators can put their fist to the same equipment as the Western Union and railroad operators of old. The feeling of quality and pride from owning a piece of history can't be achieved with any other later day piece of equipment. With the ownership of this beautifully crafted part of history, you will be linked to an old and great tradition. Still popular today, the distinctive sound of the "Bug" can still be heard…the signature of a true C. expert.
Available in three models:



Original Presentation: 24K gold plated brass plate on a highly polished chrome base with bright chrome top parts. Its silky smooth jeweled movements are the same as those used in fine Swiss watches.....$259
Original Deluxe: same as the Presentation but without the 24K gold plated brass plate.....$174.95
Original Standard: a neat, crisp textured finish gray base with bright chrome top parts.....$139.95

VIBROPLEX VIBROKEYERS

The Vibroplex Vibrokeyers are designed for "Bug" operators who want to move to electronic keyers without relearning keying. The single lever paddle initiates the automatic dots and dashes of the electronic keyer with the same motion used to operate the "Bug". The Vibrokeyer uses the same main frame and chrome finished parts as the "Original" for the same smooth and easy operating Vibroplex feel. For those who want to combine traditional skill with modern electronics.
Available in two models:
Vibrokeyer Deluxe: highly polished chrome base with bright chrome top parts. Silky smooth movements are jeweled as in fine Swiss watches.....$169.95
Vibrokeyer Standard: a neat, crisp textured finish gray base with bright chrome parts.....$129.95

Heil Pro-Set

Professional Quality Boomset

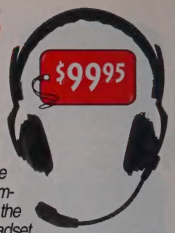
This new Heil boomset has been hailed by the leading amateur radio publications as a "giant step forward" in boomset design. The vinyl earpad ring mount snaps into the headpiece for easy removal for washing or replacement. The unit is light, yet extremely rugged and the microphone boom is flexible and can be placed in just about any location as well as folding up for traveling and storage.

AD1 (Order Kenwood, Icom, TEN-TEC or Yaesu) Radio Cable.....$14.99

NEW!

Heil Pro-Micro

Boomset



The ProMicro is a new Heil design. Weighing only 5 oz., the headphones are soft and comfortable necessary for prolonged use while keeping out external noise. The boomset is an improved design of the long-time popular BM-10 headset allowing adjustment of each headphone and boom mic.

AD1 (Order Kenwood, Icom, TEN-TEC or Yaesu) Radio Cable.....$14.99

Items with this logo, due to oversize or overweight, are shipped via surface transport.

Phillystran Tower Guys

Phillystran® High Performance Tower Guy, HPTG-I

Part Number	Jacketed Diameter in.	mm	Jacketed Weight lbs./1000 ft.	kg/km	Price per ft.
HPTG 1200I	.19	4.8	13	19	40¢
HPTG 2100I	.24	6.1	21	31	50¢
HPTG 4000I	.30	7.6	33	49	70¢
HPTG 6700I	.37	9.4	50	75	$1.00

Guy Grips:

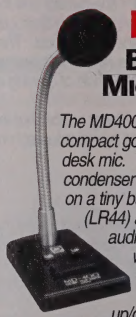
PLP 2738	$5.00 each
PLP 2739	$7.00 each
PLP 2755	$10.00 each

Thimbles:

CL 37639	$1.00 each
CL 37675	$1.50 each
CL 37693	$2.50 each
CL 37719	$2.75 each
End caps (all sizes)	25¢ each

Daiwa MD400

Base Station Microphone

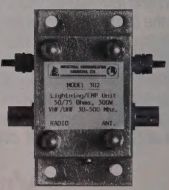


$54.95

The MD400 is a good looking, compact gooseneck-type desk mic. The high quality condenser mic operates for hundreds of hours on a tiny built-in inexpensive watch battery (LR44) and provides superior 200 to 7000 Hz audio response. The compact, nicely weighted base, with rubber cushioned feet, stays put on the operating desk, while the integral PTT and up/down buttons provide for complete transceiver control. Flexible gooseneck adjusts to the proper height and angle for any operator and is complete with an attractive foam windscreen for that professional look! Ready to wire for any radio. Try it, you'll love it!

I.C.E. 300-Series

Impulse Suppressors (Lightning Arrestors)



Protect your valuable investment by protecting your equipment! Millions of dollars worth of solid-state circuitry are destroyed in only a few thousandths of a second each year in North America by lightning and ground level voltage surges. The most effective insurance policy in the world is not a policy at all, but rather an inexpensive protection investment with no premiums to pay, no claims to file, and no resulting down time. The I.C.E. 300-Series is the answer! Packed with storage box, mounting hardware, and 4-page owner's installation, operation, and technical manual. 2 year warranty. Size (HWD): 1-1/2" x 1-3/4" x 2-1/4".

Model	RF Power	Freq. Range	Impedance	Connectors	Price
302/B	600 WPEP/300DC	30-500 MHz	50/75 Ω	BNC	$40
302/N	600 WPEP/300DC	30-500 MHz	50/75 Ω	N	$40
302/U	600 WPEP/300DC	30-500 MHz	50/75 Ω	S0239	$38
303/N	6 kWPEP/3 kWDC	1.5-200 MHz	50/75 Ω	N (TFE)	$46
303/U	6 kWPEP/3 kWDC	1.5-200 MHz	50/75 Ω	S0239 (TFE)	$44
304/U	2 kWPEP/1 kWDC	30-500 MHz	50/75 Ω	S2039 (TFE)	$44
308H	6 kWPEP/3 kWDC	1.5-30 MHz	300-450 Ω	(1) Ceramic	$72
309H	6 kWPEP/3 kWDC	1.5-30 MHz	300-450 Ω	(2) Ceramic	$72

CERTIFIED QUALITY (WIREMAN) QUANTITY DISCOUNT LIST

Product Code	Name Brand	RG Number	Increment Sold In	<100'-ft/Inc.	>100'-ft/Inc.	>500'-ft/Inc.	>1000'-ft/Inc.	Description
CQW1000	CQX-4XL	Hardline	25 foot	63/15.75	58/14.50	56/14.00	53/13.25	Best Coax Available
CQW101	CQ-4XL	9913	25 foot	56/14.00	52/13.00	50/12.50	48/12.50	Better Than Belden
CQW102	CQ-4XL	9913	25 foot	64/16.00	59/14.75	57/14.25	54/13.50	Better Than Belden + Flexible!
CQW106	CQ-Flex	8	25 foot	57/14.25	53/13.25	51/12.75	49/12.25	Super Flexible (CQ-Super Flex)
CQW110	CQ 213/U	213/U	25 foot	43/10.75	40/10.00	38/9.50	37/9.25	Best RG-213/U-Lowest Loss
CQW113	CQ/MIL	213/U	25 foot	40/10.00	37/9.25	36/9.00	34/8.50	MIL-Spec RG-213/U
CQW115	CQ/F2	8X	25 foot	19/4.75	18/4.50	17/4.25	16/4.00	Standard RG8X
CQW116	CQ-F2	8X	25 foot	25/6.25	23/5.75	22/5.50	21/5.25	Enhanced RG8X
CQW118	CQ-F2	8X	25 foot	30/7.50	28/7.00	27/6.75	26/6.50	Best RG8X-Lowest Loss
CQW127	CQ-MIL	58C	25 foot	21/5.25	19/4.75	18/4.50	16/4.00	MIL-Spec RG-58
CQW135	CQ-MIL	59B	25 foot	24/6.00	22/5.50	21/5.25	20/5.00	MIL-Spec RG-59 (75 OHM)
CQW301	CQR1		25 foot	23/5.75	21/5.25	20/5.00	19/4.75	Rotor Cable 2-18+6-22 Gauge
CQW302	CQR2		25 foot	39/9.75	36/9.00	35/8.75	33/8.25	Rotor Cable 2-16+6-18 Gauge
CQW311	CQR11		25 foot	35/8.75	32/8.00	31/7.75	29/7.25	Rotor/Control Cable 6-18 GA.
CQW511			100 foot		11/11.00	106/10.60	101/10.10	Antenna Wire 7 Str 14 Gauge
CQW523	Silky		100 foot		12/12.00	115/11.50	110/11.00	Tinned Ant. Wire 19 STR 14 GA.
CQW531	Silky		100 foot		17/17.00	163/16.30	156/15.60	Polyclad Silky 13 Gauge 19 STR
CQW552			25 foot	22/5.50	20/5.00	192/4.80	184/4.60	450 OHM Ladder-Line 16 GA. Flex
CQW553			25 foot	16/4.00	15/3.75	144/3.60	138/3.45	450 OHM Ladder-Line 18GA STD
CQW604			25 foot	54/13.50	50/12.5			1/2 Inch Tinned Copper Braid

Items with this logo, due to oversize or overweight, are shipped via surface transport.

VAN GORDON BALUN

HI-Q BALUN

$14.95

- For dipoles, yagis, inverted vees and doublets
- Replaces center insulator • Puts power in antenna • Broadbanded: 3-40 MHz • Small, lightweight and weather-proof • 1:1 or 4:1 impedance ratio • For full legal power and more • Helps eliminate TVI • With SO-239 connector • Built-in DC ground helps protect against lightning

BENCHER ZA-1A

1:1 BALUN

$34.95

Lets your antenna radiate- not your coax! Most antennas, such as dipoles, inverted vees, quads and yagis are designed to be balanced radiators. So, coaxial cables or other unbalanced feed lines are not fully effective in driving these antennas directly. Because the Bencher Balun converts the unbalanced coax to a balanced feed, the antenna is properly driven and your power is radiated by the antenna- not the feed line. Rated at 5 kW peak. High impact Cycolac custom case with special anti-UV formulation for long life outdoors. SO-239 connectors.

AMPHENOL CONNECTORS

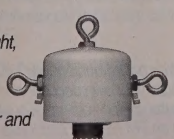
Product Code	Description	Price Each
UHF:		
APN83-1SP-1050	PL-259 Nickel/Phenolic	$1.35
APN 83-1 SP	PL-259 Silver/Phenolic	$2.00
APN 83-185RFX	PL-259 Reducer-RG-58	$0.25
APN 83-168 RFX	PL-259 Reducer-RG-8x/RG-59	$0.25
APN 83-1 RRFX	SO-239 Panel Connector (UHF Female)	$2.00
APN 83-1J	Female-Female Adapter (PL-258)	$2.50
APN 83-1AP	UHF Right Angle Adapter (Jack-Plug)	$5.00
"N"		
APN 82-202	"N" Male For RG-8/213	$4.50
APN 82-202-1006	"N" Male For Belden 9913	$6.00
APN 82-101 RFX	"N" Barrel Connector (Female-Female)	$4.50
APN 82-100 RFX	"N" Male-Male Connector"	$6.00
APN 82-97 RFX	"N" Panel Connector (Female)	$2.75
APN 82-5722- RFX	"N" Male Cap 50 Ohm/1 Watt	$5.00
BNC:		
APN 31-320 RFX 1	BNC Plug For RG-58	$1.35
APN 31-321 RFX 1	BNC Plug For RG-8x/59	$1.35

VAN GORDON CENTER

HI-Q ANTENNA CENTER INSULATOR

$6.95

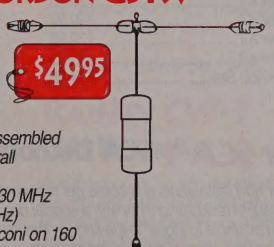
- Small, rugged, lightweight, weatherproof
- Replaces center insulator
- Handles full legal power and more
- With SO-239 connector



VAN GORDON G5RV

MULTI-BANDER ANTENNA

$49.95



- Completely assembled
- 102' long overall
- 2 kW
- All bands 3.5-30 MHz (except 10 MHz)
- Use as a marconi on 160 meters with a tuner
- May be installed as in a horizontal or inverted vee configuration

ROHN TOWERS

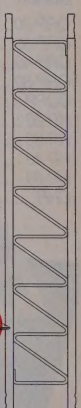
10 Foot Tower Sections

25G	$69
45G	$159
55G	$199

BX Towers

HBX56	$597
HDBX48	$586

ALL ROHN TOWERS AND ACCESSORIES ARE AVAILABLE. CALL FOR PRICES!



RAMSEY Kits

Tucker's Kit Return Policy
You may return the entire unassembled kit for credit or refund. Once you begin soldering parts, you assume responsibility as the kit's manufacturer; therefore, Tucker Electronics cannot accept the return of any kit-in-progress or completed kit for any reason whatsoever.

RAMSEY SS-70
SPEECH SCRAMBLER & DESCRAMBLER $39.95

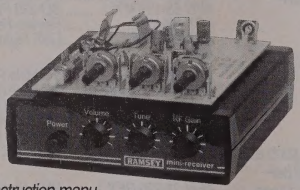
You're scanning around just listening to this and that when all of a sudden…$@&^*&%$#!!!*— you hear that sound, kind of like a duck with laryngitis. What you're hearing when that happens is a scrambler and what a Ramsey SS-70 is, is a descrambler. Yes, the SS-70 will allow you to listen in on those "duck calls." And you can even use it to scramble your calls. In fact, it can do both at once! Works for radio or telephone. Really crisp sound due to the sharp IC and crystal inside. It's portable and easy to assemble.*

RAMSEY SS-70WT
WIRED AND TESTED WITH CASE $79.95

RAMSEY CS-1
RADIO SET KIT $19.95

Galena is the heart of the Ramsey SC-1 Crystal Radio Set, a radio that needs no batteries— or reliance on modern semiconductor devices. You'll build a crystal set similar to the ones built by early radio pioneers Oh what a thrill to pull signals out of the air on such a simple rig. The manual encourages experimentation with other detectors—even a pencil lead or old razor blade, similar to the "fox-hole" radios of World War 2. The CS-1 requires no soldering, making it ideal for introducing newcomers to the "art" of radio and for old-timers to relive the golden years of radio, in fact, there isn't anyone who hasn't been fascinated by this radio. We show you how to build a standard AM broadcast band radio as well as a shortwave band receiver capable of picking up signals from across the ocean. Complete with all parts, including a sensitive earpiece and even the antenna wire. Try the CS-1, see how simple a radio can be and find a whole new appreciation of today's electronics technology.

RAMSEY QRP SERIES TRANSMITTER KITS & HR SERIES MINI AMATEUR RECEIVER KITS



Thousands of these kits are in use world-wide. They include exceptional instruction manuals and are both practical and economical. Learn and have fun!!!

Model	Description	Price
QRP-20	Includes 14.060 MHz XTAL	$29.95
QRP-30	Includes 10.108 MHz XTAL	$29.95
QRP-40	Includes 7.040 MHz XTAL	$29.95
QRP-80	Includes 3.579 MHz XTAL	$29.95
CQRP	Matching Case And Knob Set For Transmitters	$14.95
HR-20	20 Meter Receiver Kit	$29.95
HR-30	30 Meter Receiver Kit	$29.95
HR-40	40 Meter Receiver Kit	$29.95
HR-80	80 Meter Receiver Kit	$29.95
CHR	Matching Case and Knob Set	$14.95

RAMSEY FM-5
MICRO-BUG $19.95

RAMSEY PA-1
2 METER POWER AMP KIT $34.95

RAMSEY RFS-1
RF SENSED T-R RELAY KIT. $14.95

RAMSEY PB-1
TELEPHONE BUG TRANSMITTER $14.95

RAMSEY BN-9
SUPER SNOOP AMPLIFIER $8.95

Will pick up a pin drop at 15 feet.

RAMSEY QT-1
SUBAUDIBLE TONE ENCODER/DECODER ... $39.95

Handles 39 standard CTCSS tones.

RAMSEY UT-5
UNIVERSAL TIMER/TIME DELAY CONTROLLER $5.95

RAMSEY VS-1
SOUND-ACTIVATED SWITCH $6.95

RAMSEY TS-4
TICKLE-STIK $9.95

Tickle or stimulator— take your pick...once you grab it, you'll let go quick!

RAMSEY SCA-1 SCA DECODER

$27.95

Ever wonder how restaurants and hotels get their continuous, commercial-free background music? They get it off the local FM radio station, but with a special decoder. Now you can build your own decoder and tap into the wealth of programming available to those "in-the-know". Programming available runs the gamut from stock quotes to rock music to easy listening to all the news. The decoder connects to the detector output on an FM receiver and tunes entire SCA subcarrier band (50-100 kHz). Features both speaker and in-line audio outputs. Tune into what you've been missing, try the SCA-1!

CSCA Matching Case Set $14.95

RAMSEY FM10A
STEREO TRANSMITTER KIT.....$34.95

Connect a cassette deck, CD player or mixer panel to the FM10A's line level inputs and you're on-the-air with a school, dorm, camp, home, church or neighborhood FM station. The FM10A has plenty of power and our manual goes into great detail outlining all the aspects of antennas, transmitting range and the FCC rules and regulations. Adjustable anywhere in the 88 to 108 MHz FM broadcast band.

CFM Case Set For FM-10A $14.95

RAMSEY AM-1
RADIO TRANSMITTER KIT.....$29.95

The Ramsey AM-1 radio transmitter operates in the standard Am broadcast band and is easily tunable to any clear channel in your area. The AM-1 is designed very similar to actual commercial radio transmitters, so you'll learn how the "big boys" operate and use their transmitters. Transmitter power is 100 mW so no FCC license is required, expected range is up to .25 mile depending upon antenna and conditions.

CAM Matching Case Set For AM-1 $14.95

RAMSEY ATV-74
TV CONVERTER KIT $159.95

This converter takes the 439.25 or 911.25 MHz TV signal and converts to standard TV channel 3. Hook-up is easy, connect your receiving antenna to the ATV-74 input and jumper the output to any TV's antenna terminals. Since the latest in SMT (Surface Mount Technology) is used to provide for the smallest possible size, the kit version is recommended for experienced builders only.

RAMSEY TV-6
TV TRANSMITTER KIT.....$27.95

This great little kit allows you to send any audio and video source (like a VCR or TV camera) to any TV set for up to 300 feet. The manual explains every part of the circuit from A to Z. Tunable to any TV channel 2-6, runs on 12 VDC, and accepts standard audio and video signals.

CTV Matching Case Set $14.95

RAMSEY AR-1
AIRCRAFT RECEIVER $29.95

Wouldn't it be great to be able to listen-in on a huge 747 as she's coming-in for a landing, the Airline Pilot and Air Traffic Controller carefully making sure that everything is ready when suddenly . . . ? Just get one of these tightly packed AR-1 Aircraft Receivers. Varactor Diode Tuning over the entire 118-136 MHz Air band, fast Automatic Gain Control for clear reception, clean superheterodyne circuitry, convenient squelch control, and it's PORTABLE.

CAR Case For AR-1 Aircraft Receiver $14.95

RAMSEY

RAMSEY DN-1
NICAD BATTERY CONDITIONER/FAST CHARGER KIT $49.95

Quit spending big bucks for replacement battery packs, rejuvenate and condition your batteries for peak capacity. Advanced circuitry has optimized discharge-before-charge to eliminate memory effect and to condition batteries that have been poorly cared for in the past. Quick charge rapidly brings battery to full charge in less than 1 hour, just 15 minutes for some types! Charges NiCads or NiMH packs from 2 to 10 cells (easily expanded) and current capacities up to 10 Amp-hrs. Runs on 12 to 15 VDC at 1.5 AMPS.

CDN Matching Case Set $14.95

RAMSEY TT-1
TELEPHONE TATTLE-TALE KIT $19.95

Keep a record of all your telephone calls—automatically. The TT-1 connects anywhere on the phone line and will control any standard, battery powered tape recorder. The recorder automatically starts and stops whenever the phone is used and records both sides of the conversation with excellent fidelity. Super easy one hour assembly!

CCT Case for Telephone Tattle-Tale $14.95

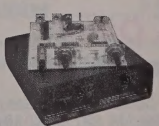
RAMSEY SG-7
SPEEDY RADAR KIT $99.95

This low cost microwave radar uses the same principle found in police units costing thousands more. You'll turn heads when you clock cars, planes, races or virtually anything that moves. Speed readout is on two LED displays which can be set accurately (better than 1%) to show MPH, KPH, or even feet-per-second. The SG-7 is easy and informative to build. Your Speedy kit includes a deluxe black ABS plastic case with SPEEDY graphics for a neat professional look. Operates on 12 VDC. Electronics case: 3.625" x 5.75" x 1.125"

RAMSEY CB-1
CHATTER BOX KIT $59.95

Great for calling CQ, leaving family messages, repeater uses, voice IDer's, and just plain fun. Messages are digitally recorded exactly-in your own voice-with exceptional quality. Plus you may change messages at will, as many times as you like! There is no need for keeping the unit continuously energized to maintain the messages. The unit is designed to record up to a total of 20 seconds of speech. This total time is split-up into four 5-second blocks which can be played separately or cascaded for longer messages. You may access any block to record or play at any time.

CCB Matching Case Set $14.95



RAMSEY CW-7
CW KEYER KIT $24.95

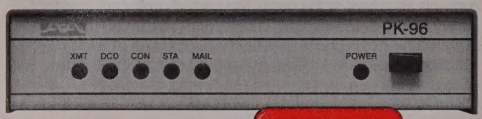
Add to your CW fun with our low cost CMOS Keyer Kit. Self completing dots and dashes with properly weighted spacing and timing are all programmed into the CW-7's design For beginners the CW-7 makes an ideal code practice oscillator. Built-in side tone, adjustable pitch, front panel speed and volume controls, and convenient 9 V operation are featured. You need to supply an external set of paddles.

CCW Case and Knob Set for CW Keyer $14.95

AEA PK-12

$129

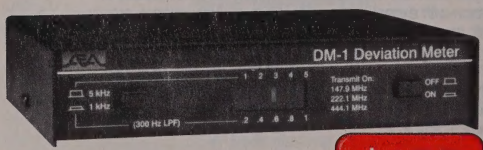
The PK-12 is a 1200 bps VHF/UHF packet TNC with GPS firmware. Comes with PC PakRatt Lite control software and APRS GPS software. Can be used as a Stand Alone Tracking device. GPS commands are remotely programmable. GPS receiver can be remotely programmed via the PK-12. The PK-12 automatically detects a connected GPS receiver and sends an initialization string. Uses little power, can even run on a 9 V battery, great for mobile. Full MailDrop facilities with message forwarding and control over who may connect to the TNC. Comes standard with 32 k RAM, expandable to 100 k. Identifies TCP/IP, TheNet, and Net/Rom stations. Great AEA command set. Optional APRS Adapter Cable available for GPS use.



AEA PK-96
Data Controller

$199

Tired of waiting for packet data? Wish for an easy solution? Now there is one: the PK-96, a cost-effective, high speed, single-mode data controller. When what you need is speed, you need the PK-96. You will no longer have to purchase a data controller and add a high-speed modem upgrade just to do 9600 baud packet! The PK-96 comes standard with 1200 baud AFSK tone signaling, as well as 9600 baud K9NG and G3RUH compatible direct frequency modulation, making it a truly high-performance data controller! The PK-96 not only makes an excellent terrestrial or satellite data controller, it also can be used for high-speed data links between packet systems. True DCD state machine for open squelch operation, KISS, PERSISTENCE, and SLOTTIME commands for extra control. If you're serious about Packet, the PK-96 is the obvious choice.



AEA DM-1
Deviation Meter

$159

The DM-1 Deviation Meter measures the deviation of FM transmitters operating the 144, 220, or 440 MHz amateur bands. Tuning is crystal controlled eliminating the need for manual tuning. Two deviation ranges allow accurate measurement of voice, data, DTMF, and sub-audible deviation. Comes with ten segment LED bar display. Includes an output for an external digital or analog meters, and an audio output. The DM-1 is small, (6.12" W x 4.75" D x 1.37" H), weighs less than a pound, and is battery powered. It can be stored almost anywhere until needed or it can be left in line.

AEA PK-900
Multi-Mode Controller

$459

The best non-DSP multi-mode controller available. Has all the modes as the PK-232, plus there is an optional 9600 bps packet board available. Features simultaneous dual radio ports which allows a true gateway from packet to PACTOR, packet to AMTOR, and packet to packet. There is 32 k RAM, PACTOR memory ARQ, satellite modems, full MailDrop facility for packet-PACTOR-AMTOR, a modem disconnect header, and superior filtering for connecting in poor HF conditions. Zero-crossing detector allows WeFax reception with the optional AEA FAX III 900 software. External AFSK adjustments more external output, inputs, and adjustments than any other. Unique front panel LCD display. Cables and connectors are included, power supply is not. Available options:

9600 Baud Option Board:.....$79
AEA-FAX 900 FAX Software:.....$75

Items with this logo, due to oversize or overweight, are shipped via surface transport.

AEA PK-232MBX
Multi-Mode Controller

$299

The most popular multi-mode data controller ever. Supports VHF/HF packet, PACTOR, AMTOR/SITOR, RTTY, Morse, B&W WeFax, ARQ and FEC, and Gateway. Receives NAVTEX/AMTEX and TDM. Includes AEA's revolutionary Signal Identification and Acquisition mode (SIAM) which detects incoming signals and switches to them. Full MailDrop facilities for packet, PACTOR, and AMTOR. Two front panel switchable radio ports. Advanced filtering. True DCD state machine for improved HF use. 21 front panel LED's, external AFSK adjustment, scope out & CW key out jack. Cables included, power supply is not.

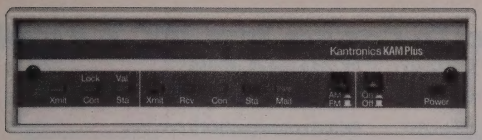
AEA PC-PAKRATT II Software For PK-232MBX.....$69

AEA PC-PakRatt for Windows 2.0
Data Controller Software.....$119

Full windows functionality. Send, receive and display ANSI graphics for PACTOR. Compatible with the new Log Windows 2.0— you can run both programs simultaneously!

AEA PC-PakRatt II for DOS
Data Controller Software.....$69

This DOS program is a terminal control program for all popular modes. Split screen makes working the modes easy. Works with IBM-compatibles and all AEA data controllers. On-screen help, full QSO logging, DOS gateway.

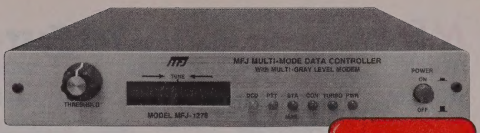


KANTRONICS KAM PLUS

ALL MODE CONTROLLER

$309

With two radio ports, the KAM Plus supports CW, RTTY, ASCII, NAVTEX/AMTEX, AMTOR (ARQ, FEC, SELFEC, CCIR 476 AND 625), GTOR, Pactor and Packet on HF While running Packet on VHF at the same time. KAM Plus runs in terminal, KISS and HOST modes. Simultaneous multi-mode operation, such as RTTY on HF and packet on VHF is also supported. Comes complete with RS232/TTL serial interface, compatible with a PC or C- 64. 1.75" x 6" x 9" and requires 12 VDC @ <200 mA.



MFJ-1278B

MULTI-MODE CONTROLLER

$369

Covers all nine digital modes: Packet, AMTOR, RTTY, ASCII, CW, FAX, SSTV, Navtex, and a full featured contest keyer. This new "B" version also includes the PACTOR mode. It also includes a built-in printer port, multi-gray level modems, random CW generators, 20 LED tuning indicator, dual VHF/HF radio ports, KISS mode, RS-232 and TTL serial ports, plus jacks for CW key paddle and CW sidetone. This controller requires a terminal program such as the excellent MFJ-1289. Too many features to list them all!

MFJ 1278B/DSP.....$369

Kantronics

KANTRONICS KPC-3

PACKET TNC WITH GPS

$117

The KPC-3 is a small-sized, low power, full featured packet TNC designed with the new user in mind while providing all the power required by experienced packet radio operators. The KPC-3 incorporates the Kantronics full-featured PBBS, including reverse forwarding to a BBS, mail waiting LED, and remote sysop access. It comes complete with version 5.0 firmware, DB-9 connector, 2.1mm power connector, and two manuals: one a quick-start manual, the other a complete reference manual. Measures 0.8" x 5.2" x 5.2" and requires 6-25 VDC at only 40 mA max.

MFJ-1276

VHF/HF PACKET TNC WITH PACTOR

$139.95

Features VHF and HF operation, free AC power supply, WeFax for weather maps, mailbox expandable to 128k, easy upgrade capability for 2400 and 9600 baud, host mode, KISS interface, net ROM and ROSE switch compatible. The 1276 is also PACTOR CAPABLE! Precision 10 Hz LED tuning indicator. The perfect way to get into the exciting world of packet radio!

KANTRONICS HOSTMASTER II

DATA CONTROLLER SOFTWARE.....$79.95

KANTRONICS HOSTMASTER MAC

DATA CONTROLLER SOFTWARE.....$79.95

The perfect match for your Kantronics TNC or multi-mode. Monitor window, Packet receive window, Xmit Echo, Non-Packet receive window, and status bar transmit window.

KANTRONICS SUPERFAXII

FAX SOFTWARE.....$49.95

Great program! Allows you to receive facsimile signals with any Kantronics TNC or multi-mode. Discover the world of news photos, satellite and weather photos and more!

MFJ 1289

MULTI-COM TERMINAL PROGRAM.....$59.95

Super multi-mode program for the 1270, 1274, 1278, and other TNC's. Features operation on all 9 digital modes, call-alert, auto-set, auto-router, packet multiplex, multi-word word processor, and more. PC compatible 5.25 disks.

MFJ 1284

IBM STARTER PACK FOR 1270, 1276 ..$23.95

Gets you on the air instantly. You get interface cable, software on disk and instructions on enjoying packet. 5.25" disks.

MFJ PRE-MADE CABLES THE EASY WAY TO CONNECT YOUR TNC & RADIO!

MFJ-5024.....MFJ TNC tn Ic/Yae/Al/RS HT cable.....$14.95
MFJ-5024X.....PK-232 to Ic/Yae/Al/RS HT cable.....$14.95
MFJ-5024YV.....KAM VHF/KPC3 to Ic/Yae/Al/RS HT cable.....$14.95
MFJ-5026Z.....PK-88 to Kenwood HT cable.....$14.95
MFj-5080.....MFJ TNC to Yaesu 8-pin cable.....$14.95
MFJ-5080YH.....KAM HF Port to Yaesu 8-pin cable.....$14.95
MFJ-5080Z.....PK-88 to Yaesu 8-pin cable.....$14.95

MFJ-5084X.....PK-232 to Icom 8-pin cable.....$14.95
MFJ-5084Z.....PK-88 to Icom 8-pin cable.....$14.95
MFJ-5086X.....PK-232 to Kenwood/Alinco 8-pin cable.....$14.95
MFJ-5086YV.....KAM VHF/KPC3-Ken/Al 8-pin cable.....$14.95
MFJ-5086YH.....KAM HF port-Ken/Al 8-pin cable.....$14.95
MFJ-5224.....Ic/Yae/Al/RS HT open end cable.....$9.95

MFJ TNC/MIC SWITCHES

MFJ-1272B

This is the most popular TNC/multimode accessory in amateur radio because it lets you switch between your microphone and MFJ multimode by pushing a button. Just plug the pre-wired cables into your rig's microphone connector and into your MFJ TNC/multimode and you're ready to go– no more hunting for hard-to-find connectors and trying to figure out the right pins to solder. Plug-in jumpers let you quickly set the switch for any radio. Includes audio in and speaker jacks. 3.25" x 1.25 x 4".

For KANTRONICS TNC'S order MFJ-1272BYV.....$39.95
For MFJ TNC'S order MFJ-1272B.....$39.95

SOLDER IT SPK-8

THE SOLDER IT KIT

$59.95

This Solder It SPK-8 includes everything you need for soldering. Includes the following items: 1 Silver Bearing Soldering Paste Syringe; 1 Aluminum Solder Paste Syringe; 1 Copper Bearing Solder Paste Syringe; 1 Pot Metal Solder Paste Syringe; 1 Professional Refillable Butane Pencil Torch with Hands Free Stand; 1 Vinyl Storage Pouch.

Solder It ALP21.....Aluminum Solder Paste.....$6.00
Solder It MJ-300.....Micro Jet Torch.....$24.95
Solder It SG1.....Screw Grab.....$5.00

SOLDER IT SP-7

SILVER BEARING SOLDER PASTE

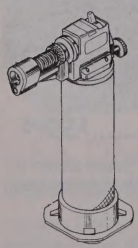
$6

For all electrical soldering (wires, connectors, cables). Very conductive with 2% silver content. Works on ferrous and non-ferrous metals including copper, brass, bronze, nickel, platinum, chrome, monel, galvanized, stainless, gold, silver, coated steel, cast iron, black steel, steel. Especially useful for soldering PL 259s, miniature connectors, and battery pack connections. Noncorrosive, no lead or anitimony. Solder small jobs with the hear of a match or lighter.

SOLDER IT BT-100

MAXI-TORCH

$59.95

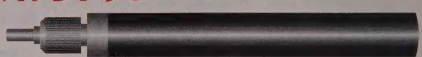


This butane powered Maxi-Torch features a rugged knurled aluminum body for positive grip as well as steel, brass, and ceramic fittings. It burns for up to 2 hours on each fill and has a Piezo Ignition System for easy starting - no lighter or spark is needed. The separate controls for flame size and temperature give you great flexibility. Like the standard BT-50, this torch is extremely stable at all angles. The removeable 2-way plastic base provides upright stability as well as horizontal option for a hands-free vertical Bunsen burner type flame.

Solder It SIA11.....Solder Head BT-100.....$15
Solder It SAI41.....Hot Blower HD BT-100.....$16

SOLDER IT BT-50

TORCH



$39.95

The professional grade precision tool constructed of steel, chrome and brass. The torch will burn for up to 1 hour on a single charge of standard butane and can be adjusted from a pin-point to an aggressive flame. This torch can be used reliably at any angle or flame size and will not sputter, go out or flare up when turned upside-down. Extensive selection of soldering tips available.

SOLDER IT ACCESSORIES FOR BT-50 TORCH

SA-3.....Hot Knife (Tip Only).....$17
SA-4.....Hot Blower.....$7
ST-2.....2.5 mm Diagonal.....$7
ST-3.....3.5 mm Diagonal.....$7

PAC COMM BAYMOD 9

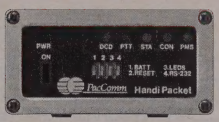
Was $65 Now $59

VHF SERIAL PORT MODEM

The simplest and easiest way to get started on packet is with the Pac Comm's Bay Mode-9 serial port modem. Designed so you can be sure they properly interface to the BayCom software in every respect. The BayMode-9 is contained in a 9 to 9 pin gender changer housing. Just plug the BayMod-9 into your 9 pin serial port, or at the end of a 9 to 9 cable and attach a radio cable to the other end. The radio connector has provision for applying external power to operate the BayMod-9 in case the serial port of your computer is underpowered.

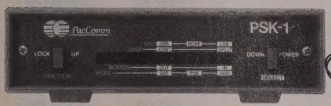
PAC COMM HANDIPACKET

Was $219 Now $189



TRUE PORTABLE TNC

This compact portable packet controller has a rugged all-metal case for durability and low RF noise and measures only 1.28 x 2.55 x 4.15 inches. Contains a built in heavy-duty 500 mAH battery pack which allows up to 10 hours of operation between charges. Other features include: modem circuit with 'open squelch' operation; advanced personal message system; six LEDS-DCD, PTT, STA, CON, PWR, and Message Waiting; eight pin MiniDIN radio/ external modem connector; built-in circuitry to support hand held radio PTT circuits; 32 K battery backed RAM, 4.9 MHz CPU clock speed, 6 MHz rated low power CMOS ICs; and AX.25 firmware including KISS.



$229

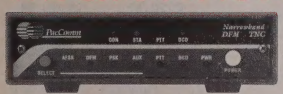
PAC COMM PSK-1

PACKET SATELLITE MODEM

The PSK-1 Satellite Modem allows you to add packet satellite capability to your existing station. It can be used with most 1200 baud TNCs to provide access to the 1200 baud MicroSats and Fuji satellites. Used with PacComm's TNC-NB96 the PSK-1 allows access to all the current satellites, both 1200 and 9600 bps. Decodes 4300 baud telemetry from Oscar 10 and 13; All modes and functions can be selected by front panel push buttons, or by menus if computer control port is used. Led bar-graph displays proper signal tuning, also shows mode and functions selected.

800•559•7388

PAC COMM TNC-NB96



1200/9600 SWITCHABLE

Was $289 Now $240

This TNC-NB96 combines an EM-NB96 modem and a TINY-2 MK-2 TNC in the same case. It is the perfect companion to the PSK-1 Satellite Modem. The switching circuitry in the TNC-NB96 and the PSK-1 operate together to allow access to the 1200 bps Microsats and the 9600 bps PacSats through the same multimode transceiver. Contains all of the features of the TINY-2 MK-2 including the dual-image EPROM and Personal Message System. The TNC-NB96 also supports asynchronous terminal data rates up to 38.4 kbps. The TINY-2 MK-2 TNC, EM-NB96 modem and RF transceiver are already interfaced and tested. It is only necessary to attach power, computer cable, and antenna.

PAC COMM SPRINT-2

HIGH PERFORMANCE PACKET CONTROLLER

Was $219 Now $189

Fast, powerful, rugged, reliable, quiet, sensitive, expandable, and inexpensive are the best ways to describe the Pac Comm Sprint-2. The Sprint-2 is ideal TNC for the modem (9600 bps & faster) packet station & for BBS, satellite and NODE use. Uses reliable, tested technology (G3RUH modem, TNC-2 CPU architecture) with large-scale programmable logic circuits to reduce cost for solid, reliable performance. Specifications: 128 k RAM, PacComm firmware including PMS, Main modem filters configured for 9600 bps and auxiliary modem filters unconfigured.

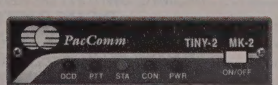
PAC COMM TINY-2 MK-2/ 10 MHZ

TINY-2 TNC

Was $169 Now $149

Features: Global Positioning System, 32 k non-volatile RAM, all while using a low power consumption of only 45 mA. Offers the higher speed clock option. When channel occupancy is high or data speed is 9600 Bd+, the TNC may be simply upgraded to 9.8 MHz from 4.9 MHz.

PAC COMM TINY-2 MK-2



PACKET CONTROLLER

Was $139 Now $119

The most flexible, fully equipped low-cost TNC on the market. Expandable to high throughput node use. Features: Global Positioning System, 32 k non-volatile RAM, all while using a low power consumption of only 45 mA.

SAVE ON OVERSTOCKS, CLOSE

ITEM	DESCRIPTION	WAS	NOW
AEA HR-1	2M HT ANTENNA	$24.95	$14.95
ALINCO EDC-43	MOBILE POWER CORD	$9.95	$6.95
AMERITRON ADL-1500	1.5KW CAN DUMMY LOAD-OIL INCLUDED	$59.95	$49.95
AMERITRON ICP-120	INRUSH CURRENT PROTECTOR	$79.95	$64.95
AMERITRON ICP-240	INRUSH CURRENT PROTECTOR 220/240V	$79.00	$64.95
BATTERY-TECH BP-131	7.2V/900maH BATTERY IC-W21A/AT	$47.95	$39.95
BATTERY-TECH BP-132	12V/600maH BATTERY IC-W21A/AT	$59.00	$49.95
BATTERY-TECH BP-157A	7.2V/900maH BATTERY IC-2GXAT/4GXAT	$52.00	$39.95
COMET NCG-2000	SWR/POWER METER	$89.95	$69.95
COMET SH-95	2M/440/1.2 GHz HT/SCANNER ANTENNA	$49.95	$39.95
DAIWA CP10I2	CIGARETTE LIGHTER PLUG ICOM	$9.95	$ 6.95
DAIWA DP-820	DIGITAL VHF/UHF SWR/PWR METER	$259.00	$199.00
DAIWA NS663BM	140-525MHZ WATT METER W/SENS	$189.00	$159.00
DAIWA U66V	104-525MHZ SENSOR	$79.00	$59.00
DIAMOND X-510MA	2M/440 BASE ANTENNA 8.3/11.7DB GAIN	$199.00	$159.00
EMOTO 747SRX	22SQ. FT. ROTOR	$539.00	$499.00
ICE 112-4	ACTIVE ANT. SPLITTER	$47.00	$31.95
ICE 330	A.C. POWER NOISE FILTER	$58.00	$39.95
ICE 335	A.C. LINE FILTER-15 AMP	$58.00	$39.95
ICE 349	ROTOR SPIKE SUPPRESSOR	$44.00	$29.95
ICE 389S	BRASS ATTACH HUB	$36.00	$27.95
ICE 405	BANDPASS FILTER 7.0-7.3MHz	$34.00	$24.95
ICE 406	BANDPASS FILTER 10.0-10.2MHz	$34.00	$24.95
ICE 421	LOWPASS FILTER	$54.00	$39.95
ICE430B	T.V. HP FILTER	$26.00	$19.95
ICOM BC-80A	DESKTOP CHARGER	$132.00	$109.00
ICOM LC-104	CARRY CASE IC-W21A W/BP-132	$25.00	$4.95
ICOM LC-72	CARRY CASE IC-W2A/X2A W/BP-82/83/90	$25.00	$4.95
ICOM LC-84	CARRY CASE IC-2IA W/BP-120/122	$25.00	$4.95
ICOM PS-15	POWER SUPPLY-ALL HF TRANSCEIVERS	$299.00	$199.00
JPS NF-60	SPECTRAL NOTCH FILTER	$149.00	$129.00
JPS NRF-7	GENERAL PURPOSE NOISE REDUCING FILTER	$229.00	$189.00
KENWOOD DSP-100	DSP UNIT TS-850S	$99.00	$199.00
KENWOOD SC-34	SOFT CASE TH-28A/48A/78 W/PB-17/18	$24.95	$16.95
MFJ-1020A	SWL INDOOR ANTENNA	$79.95	$59.95

HURRY! CALL TODAY...

MFJ-1022	2-200MHz ACTIVE SWL INDOOR ANT.	$39.95	$29.95
MFJ-105B	24 HOUR QUARTZ CLOCK	$19.95	$16.95
MFJ-107B	24HR. MINI LCD CLOCK	$9.95	$7.49
MFJ-1112	DC POWER STRIP	$27.95	$21.95
MFJ-1270CQ	TNC2 HF/VHF 9600 BPS	$99.00	$179.00
MFJ-1272BX	TNC/MIC SW PK-232	$39.95	$31.95
MFJ-1272BYH	TNC/MIKE SWITCH FOR KANTRONICS HF PORT	$39.95	$31.95
MFJ-1272BZ	TNC/MIC SWITCH PK-88	$9.95	$29.95
MFJ-1281	EASY DX SOFTWARE	$9.95	$29.95
MFJ-1287	MACINTOSH STARTER PACK FOR 1270/74/76	$24.95	$19.95
MFJ-1287B	MULTICOM STARTER PACK FOR MACINTOSH	$49.95	$39.95
MFJ-1621	10-40M PORTABLE ANTENNA	$79.95	$59.95
MFJ-1681	LOG WINDOWS	$64.95	$49.95
MFJ-1682	PACKET WINDOWS SOFTWARE	$29.95	$21.95
MFJ-1683K	RIG WINDOWS SOFTWARE-KENWOOD	$29.95	$21.95

OUTS & DISCONTINUED ITEMS

ITEM	DESCRIPTION	WAS	NOW
MFJ-1683Y	RIG WINDOWS SOFTWARE-YAESU	$29.95	$21.95
MFJ-1710	POCKET LINEAR HT ANTENNA	$9.95	$7.95
MFJ-1730	POCKET ROLL UP 2M ANT.	$14.95	$11.95
MFJ-1740	1/4 WAVE GROUND PLANE	$12.95	$ 9.95
MFJ-1754	DUAL BAND BASE ANT.	$24.95	$19.95
MFJ-1763	PORTABLE 3EL 2M BEAM	$37.95	$31.95
MFJ-202B	RX NOISE BRIDGE	$59.95	$44.95
MFJ-203	1.8-30MHZ DIP METER	$94.00	$74.95
MFJ-204B	ANTENNA BRIDGE	$84.95	$59.95
MFJ-208	VHF SWR ANALYZER	$89.95	$59.95
MFJ-250	1KW CAN DUMMY LOAD-WITH OIL	$49.95	$39.95
MFJ-250X	CAN DUMMY LOAD-1.5KW-OIL NOT INC.	$29.95	$24.95
MFJ-260B	300W DRY DUMMY LOAD	$29.95	$21.95
MFJ-264	1.5KW DUMMY LOAD-DRY	$59.95	$44.95
MFJ-284	SPEAKER/MIC ICOM/YSU/AL.	$24.95	$19.95
MFJ-285L	MINI SPEAKER/MIC IC/YSU/AL/R.S.	$24.95	$19.95
MFJ-285W	MINI SPEAKER/MIC ICOM "W" SERIES	$24.95	$19.95
MFJ-287	MINI SPEAKER MIC-KENWOOD	$24.95	$19.95
MFJ-287L	MINI SPEAKER/MIC KENWOOD	$24.95	$19.95
MFJ-415	CW ADAPTOR MFJ-9420	$39.95	$29.95
MFJ-422CX	KEYER FOR BENCHER	$79.95	$59.95
MFJ-490	MEMORY KEYER	$159.95	$129.95
MFJ-624D	PHONE PATCH	$89.95	$79.95
MFJ-817	POWER METER 144/440	$74.00	$59.95
MFJ-840	HT WATT METER 144MHz	$19.95	$14.95
MFJ-850	A.C. LINE VOLTAGE MONITOR	$19.95	$14.95
MFJ-9040	40M QRP CW TRANSCEIVER	$169.00	$129.95
MFJ-910	HF MOBILE MATCHER	$17.95	$14.95
MFJ-912	W9INN BALUN BOX	$37.95	$29.95
MFJ-934	ARTIFICIAL GROUND	$164.00	$139.00
MFJ108B	CLOCK 12/24 LCD	$19.95	$17.95
MFJ16010	HF WIRE TUNER	$37.95	$29.95
MFJ452	CW KEYBOARD W/DISPLAY	$119.95	$99.95
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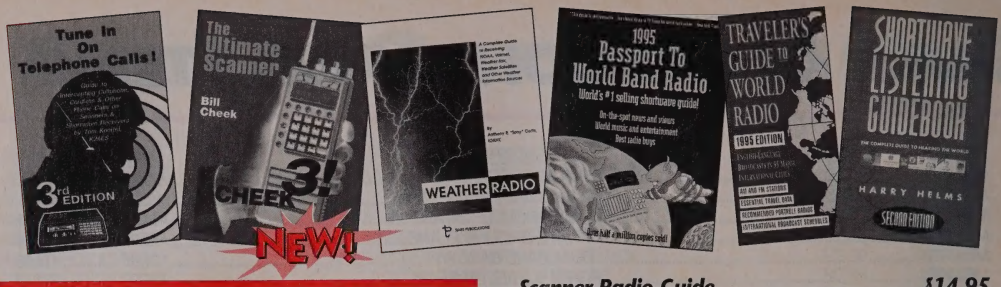

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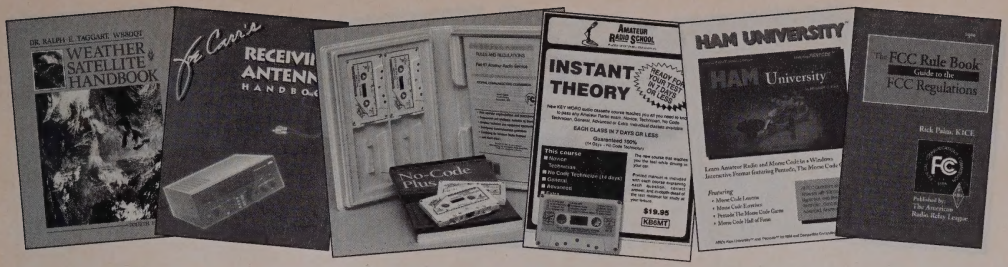

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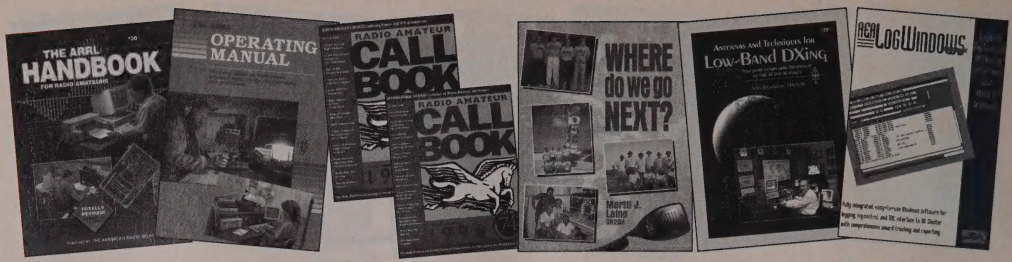

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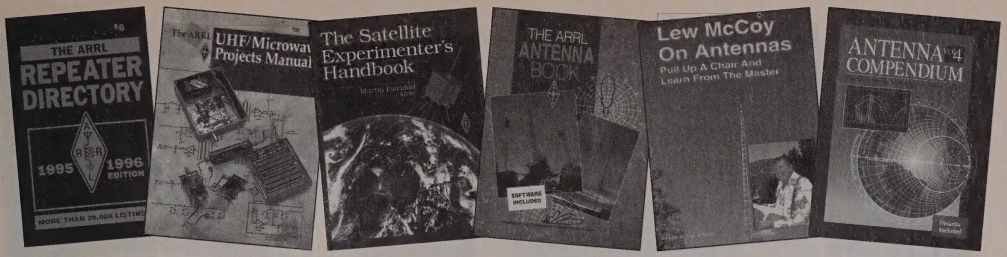

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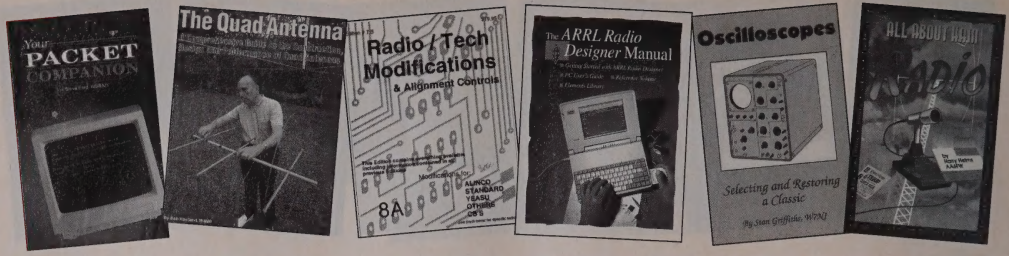

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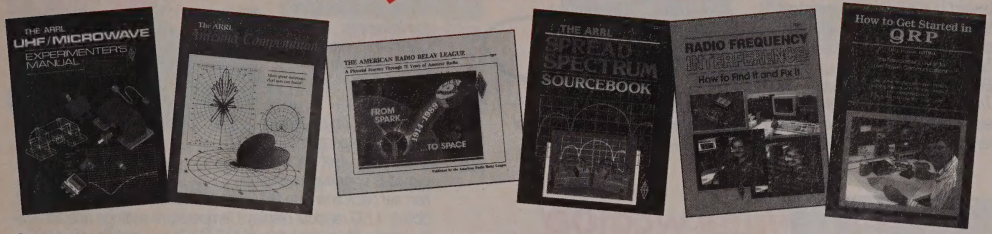

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MFJ-3504	FET PRINCIPLES	$16.95	$12.95
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MFJ-38	EASY UP ANTENNAS	$16.95	$12.95

Books Can Be Delivered Via PRIORITY MAIL For Only $3.50

WELLER EC1002-1
SOLDERING STATION

$210

This soldering station is dial calibrated in 10°F (6°C) increments and has power control with zero cross switching for tips free of high voltage spikes. Electrostatic discharge safe; True protection for sensitive, electronic components; Iron stand, with tip storage, positions left, right or remote from main unit, and ED1201A iron.

WELLER EC2002M-2
SOLDERING STATION

$299

This complete station with EC1201A iron & stand features the following: Calibrator to factory reset or custom offset; Lockout provides temperature lockout on a variable temperature station; Set back feature provides operator determination set back timing to 350°F/Automatic 99 minute station shut down; LED readout displays temperature settings and tip temperature with a resolution of 1°F (1°C) and stability of ±10°F (±6°C); Display shows "Read" mode by default which displays current temperature of the tip; To switch to "Set" mode, turn knob slightly, display will show current set temperature; Handles delicate applications; Electrostatic discharge safe; Water reservoir keeps sponge moist.

$105

WELLER WCC100
ELECTRONIC SOLDERING STATION

- *Electronically controlled station with compact design, ideal for the novice soldering buff*
- *40 W soldering pencil, fitted with ETA tip can be used with the full range of Weller ET series tips*
- *Adjustable temperature from 350°F to 850°F, stable within ±10°F at idle*
- *Zero voltage circuit ensures no high voltage spikes or magnetic fields present at tip to damage sensitive components*
- *3-wire grounded power cord, UL-recognized*
- *Lighted On/Off switch; impact-resistant housing and iron handle*
- *UL listed*

WELLER 921ZX1
ELECTRONIC SOLDERING SYSTEM

$119

- *Electronically controlled - zero cross circuitry*
- *Spike free - ESD safe*
- *Ceramic heater rated for exceptionally long life*
- *Variable control - fully adjustable 550° - 850°F*
- *Lightweight hand piece*
- *External fuse and calibration access*
- *Temperature lockout available*
- *Small footprint requires little bench space*
- *Comes with 9018 tip*

WELLER PH60
IRON STAND ASSEMBLY

$17.99

The Weller PH60 is a soldering tool stand which comes complete with base, sponge receptacle. Designed to be used with W60P and "WP" series irons and irons with barrel diameter up to 15/32"/11.90 mm.

Weller WDP12
Desoldering Pump With 0.12" tip $17.95
Weller AC303P
Desoldering Bulb $9.95
Weller WPB1
Polishing Bar For Soldering Tips $6.49

WELLER WLC100
SOLDERING STATION

NEW!

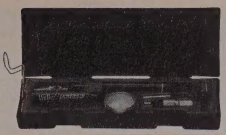
$44

- *On/off switch with "power-on" indicator light*
- *Variable power control produces 5-40 W*
- *Quality lightweight pencil iron*
- *Cushioned foam grip with replaceable heating element*
- *Ideal for hobbyists, DIYers and students*
- *Safety guard iron holder*
- *Natural sponge tip cleaning pad*
- *ST3 iron plated copper tip*

Weller Soldering Supplies

RC0501	Solder, .05, 1 oz, lead free, rosin core	$2.49
RC0504	Solder, .05, 4 oz, lead free, rosin core	$5.49
RC0621	Solder, .062, 1 oz, lead free, rosin core	$2.49
RC0624	Solder, .062, 4 oz, lead free, rosin core	$9.49
KSILVER	Silver Solder, 1 oz/.035 flux	$4.49
RC40	Rosin Core Solder 5 ft.	$3.49
RC60V	Rosin Core Solder 13 ft.	$4.49
WS6018	Solder Spool 63/37 - 1-lb.	$21.99

WELLER P-1KB
PORTABLE SOLDERING TOOL KIT



$49

This cordless, portable butane gas powered soldering tool kit comes complete with rugged, plastic storage case, 2.4 mm iron plated solder tip, Portasol soldering tool with 2.4 mm tip, cleaning sponge, blow torch accessory, hot blower accessory, hot knife accessory, and safety stand. Features include: Patented soldering tool has a catalytic converter that provides a powerful yet safe flameless combustion; Refills with butane lighter gas; ideal for a wide variety of soldering jobs at work or at home; develops 850° F/ 450° C.

WELLER P-1
PORTASOL

$28.99

The Weller P-1 Portasol does not require cords, batteries or cartridges. This patented soldering tool has a catalytic converter that provides a powerful yet safe flameless combustion. Refills with butane lighter gas and has these great features: Tank which holds gas for 90 minute operation; Safety cut-off switch when cap replaced; Flint-spark ignitor in cap. Ideal for a wide variety of soldering and desoldering jobs at work or at home. The adjustable temperature control regulates the power (the equivalent of 10-60 watts) to quickly heat the tip. Develops 850°F/454°C.

WELLER WP25
PROFESSIONAL SOLDER IRONS

$29.95

- *Ideal for a wide variety of electronic tasks*
- *Interchangeable heater elements - single handle plus three different heating elements gives the user a trio of irons for different jobs*
- *Quick Change knurled collar makes changing heater simple*
- *Lightweight handle with cushioned grip*
- *Comes with 3-wire power cord*

WELLER 8200PK
SOLDERING GUN KIT

$36

- *8-piece kit with 8200 soldering gun*
- *Includes: 1 soldering tip; 1 sealing tip; 1 cutting tip; flux brush; soldering aid tool; coil of lead-free rosin core solder*
- *Sturdy plastic carrying case*
- *Soldering hints booklet*

XCELITE TCMB200ST
TOOL CASE WITH TOOLS

$379

- *Fine blending of quality, economy and flexibility*
- *Contains 10 individual hand tools and 27 Series 99® interchangeable screwdriver/ nutdriver blades and handles*
- *Contains tool pallet in lid*
- *Super tough black polyethylene with rich looking black anodized aluminum hardware*

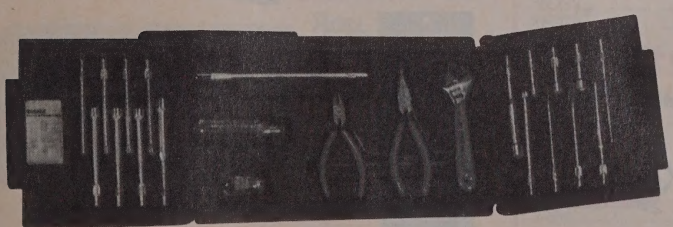
XCELITE TCS200ST
TOOL CASE WITH TOOLS

$299

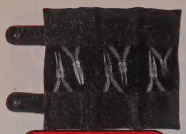
Fine blending of quality, economy and flexibility is what you will get with the Xcelite TCS200ST. It contains 10 individual hand tools and 20 Series 99® interchangeable screwdriver/nutdriver blades and handles. The case is made from rugged Cordura® and features a heavy-duty zipper and soft leather wrapped handles. Contains (on outside) 1 pocket on one side and 2 smaller pockets on opposite.

XCELITE 99SM/SMX
ROLL KIT & CASE

$125



- *Versatile 23-piece set of quality tools*
- *Provides a variety of quick change tools and tool combinations to speed up assembly and service work*
- *Available in a durable, roll-up plastic coated canvas case, or hard plastic case, for easy selection and storage.*



XCELITE C1K
ELECTRONICS HANDY PACK ASSORTMENT

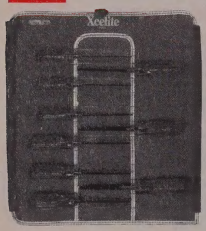
$84

This compact kit is designed for the sophisticated electronics technician or dedicated hobbyist. It consists of the six most popular Copaloy electronics pliers. The tools are encased in a durable leather pocket-pouch with heavy-duty brass snaps. Each professional quality tool features the unique Copaloy rivet for smoother action. Kit includes: EC54J 41/2" Transverse end cutting pliers; MS54 4" Diagonal cutting pliers; SN54 4" Long nose pliers with side cutter; NN54 4" Fine tip needle nose pliers; DN54G 4" Flat nose pliers; Leather pocket pouch with brass snaps.

XCELITE SAS2812
SELF-ADJUSTING WIRE STRIPPER

$59.95

- *Pocket size built for comfort*
- *Body of tough fiberglass-reinforced nylon*
- *No other self-adjusting wire stripper allows hand that positions cable and hand that cycles tool to work so closely together*
- *Mechanics made of high quality corrosion-protected special hardened Swedish steel*
- *Widest cutting and stripping range in 1 tool*
- *Cuts and strips nylon and PVC insulated cable 30-12 AWG (.05-6.0 mm2)*
- *Features handy end key ring for securing tool to work*



XCELITE LN9BP
ROLL-UP KIT

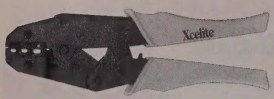
$54

Contains ballpoint, Allen hex socket type screwdrivers which are encased in a roll-up canvas case.

XCELITE SDR11
Round Blade Screwdriver Set

$19.50

Consists of 5 round blade screwdrivers for slotted screws (R182, R5324, R3166, R144 and R5166).



XCELITE MAC2210
MAXI-CRIMPER TOOL

$89.95

Maxi-Crimper is built bigger for greater terminating power. Crimps 22-10 AWG (.75-6.0 mm2 red, blue and yellow insulated terminals and splices (die nests color-coded to AWG specs). Incorporates ratchet to ensure a full-cycle complete crimp every time. Crimps exceed UL® standards for most terminals from AMP, 3M, T & B and many others.

XCELITE TKX11
MULTI-PURPOSE TOOL KIT

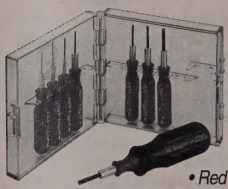
$69.95

Contains 11 quality tools perfect for all types of routine repair and simple D.I.Y. projects. All tools are packed neatly in an attractive easy-to-store case.

XCELITE 2CS5962R
PRE-ADJUSTED COAXIAL WIRE STRIPPER

$54.95

- *Saves time for novice user who strips primarily just one or a few cables in the same general O.D. range*
- *Blade Spacing: 0.24 lb, 6.0 mm*
- *Cover Strip: 7/32-1/4 lb, 5.6-6.3 mm*
- *Hex Wrench included for adjustment to other size cables*
- *Simple instructions makes model much less complex than full kits*



XCELITE PS89
SCREWDRIVER SET

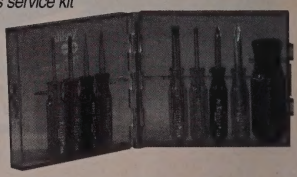
$21.25

- *For hex socket screws*
- *Set housed in attractive easy to open clear plastic case*
- *Red handles*
- *Set comes complete with the following inch sizes: .028"; .035"; .050"; 1/16"; 5/64"; 3/32"; 7/64"; 1/8"; Torque amplifier handle*

XCELITE PS88
SCREWDRIVER SET

$22.50

- *Handles more jobs with fewer tools, saves bench space and lightens service kit*
- *Equipped with remarkable black, "piggyback" torque amplifier handle*
- *Set housed in attractive easy to open clear plastic case*
- *Color-coded handles*



XCELITE CK23
PLASTIC VIEW KIT

$17.25

Comes complete with RB1, RB2, and RB3 blades and No. 25 handle. Blades and handle come in a clear zipper case.

Xcelite 127TB
Color Coded Nutdriver Set

- Contains assortment of color coded nutdrivers
- Tools are housed in a convenient blow molded case
- Assortment of nutdrivers include: Regular drilled shaft No's. 6, 8, 10, 11, and 12

$26

Xcelite 99SPC
PC Repair Kit

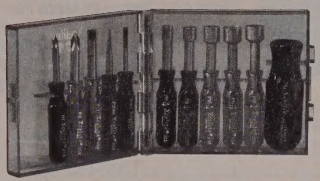
- Ideal for repairs on PC's
- Contains 13 anti-static chip tools, protects chips from ESD damage
- Tools fit securely in a convenient roll-up pouch

$40

Xcelite HS6-18
Nutdriver Kit

- Contains assortment of nutdrivers
- Sturdy yellow plastic case keeps nutdriver orderly on work bench and carries them on service calls
- Inch sizes - Contains hollow shaft No's. HS6, HS7, HS8, HS9, HS10, HS11, HS12, HS14, HS16, and HS18

$48

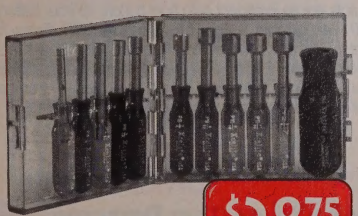


Xcelite PS130
Screwdriver & Nutdriver Set

$29.50

- Equipped with remarkable black, "piggy-back" torque amplifier handle
- Set housed in attractive easy to open clear plastic case
- Color-coded handles
- Comes with the following tools: (Screwdrivers) Brown 1" Phillips; Amber 2" Phillips; Red 1/8"; Orange 3/16"; Amber 1/4"; (Nutdrivers) Black 3/16"; Red 1/4"; Amber 5/16"; Green 11/32"; Blue 3/8"; Black Torque amplifier handle

Xcelite PS120
Nutdriver Set



- Handles more jobs with fewer tools, saves bench space and lightens service kit
- Equipped with remarkable black, "piggy-back" torque amplifier handle
- Set housed in attractive easy to open clear plastic case
- Color-coded handles
- Blue: 3/32, Red: 1/8, Amber: 5/32, Black: 3/16, Brown: 7/32, Red: 1/4, Orange: 9/32, Amber: 5/16, Green: 11/32, Blue: 3/8, Black: Torque amplifier handle

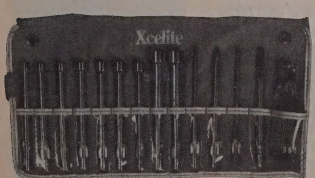
$28.75

Xcelite 177
Nutdriver Set

$34.99

- Contains assortment of nutdrivers
- Tools are housed in a plastic pouch
- Assortment of nutdrivers include: Regular drilled shaft No's. 6, 8, 10, 11, 12, 14 and 16

Xcelite 99PR
Roll Kit



The Weller Y99PR is a multi-purpose, 14-piece nutdriver and screwdriver set.

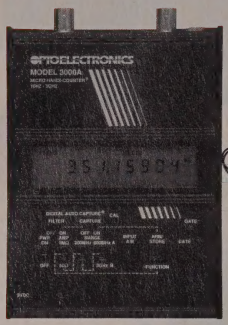
$55

There's an Xcelite Tool for Every Job

SRX33	6 pc Rd Bld/Phillips Screwdriver Set/Pouch	$27.99
FSD-1V	Four-In-One Screwdriver	$8.99
M60V	Mini Screwdriver Set	$11.49
54CGV	4" Midget Diagonal Pliers	$15.49
57CGV	5 1/2" Needle Nose Pliers	$16.99
64CGV	4" Electronic Diagonal Pliers	$19.95
53CGV	7" Utility Pliers	$10.99
76CGV	6" Comb Pliers Chrome Plated	$7.99
XP7CV	7" Locking Pliers, Curved Jaw	$10.49
42HV	Seizer 6" Curved	$11.49
100XV	Wire Strip & Cutter Adj. Screw Stop	$6.49
104CGV	Cutter Crimper Stripper Pliers	$23.99
46CGV	6" Adjustable Wrench	$15.49
XHT612	6" Cross Lock Tweezer	$4.49
XHT678	6 7/8" Curved Tweezer	$4.99
XHT700	7" Straight Tweezer	$4.49
XNS100	Knife Set	$8.95
170M	Shearcutter, Micro	$4.95
378M	Pliers, Serrated Jaws, Micro	$7.95

OPTOELECTRONICS 3000A

PLUS HANDICOUNTER



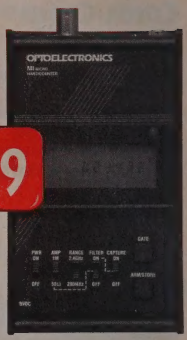
$349

RS-232 • Advanced hand held 10 Hz to 3 GHz counter with dual 50 Ω/1 MΩ input amplifiers. Get it all with the 3000A including Frequency, Period, Ratio, & Time Interval measurement capability! High resolution/ high speed counting with multiple range selection. Exclusive Digital Filter and Digital Auto Capture for hands free recording. Signal Strength bargraph, RS-232C serial data interface and 6+ hour battery operation make the 3000A the hand held instrument of choice for test and communications applications. Antenna sold separately.

TCXO Time Base Option.....$100

OPTOELECTRONICS M1

HANDICOUNTER



$249

The Optoelectronics M1 Handi-Counter is a full range, 10 Hz to 2.8 GHz, pocket sized instrument that represents a substantial real leap forward in features and capabilities. The M1 uses an imbedded micro-controller along with the powerful OE10 counter IC to provide advanced features such as Digital Filtering, Digital Auto Capture (auto hold), Data Storage, and Serial Data Output. Antenna sold separately.

- *ARM/STORE button stores and recalls frequencies from a three register stack*
- *Low Power Consumption, 4-5 hours battery operation*
- *10 digit LCD with EL back light for optimum viewing under all lighting conditions*
- *High impedance and 50 Ω amplifiers for full range coverage*

OPTOELECTRONICS CUB

POCKET SIZED FREQUENCY COUNTER

$149

The new CUB measures at only 3.7" x 2.75" x 1.2" inches and weighs merely 7.5 oz. The CUB frequency counter is ideal for Communication, Surveillance, and Recreational applications. This frequency counter incorporates all of the other standard features of the 3300 MiniCounter plus the following new features: Digital Filer reduces false counts, Auto Capture acts like an intelligent auto hold button, 10 hour battery life, works all day like you do, 8 selectable gate times, high speed .0001 second gate, 9 digit LCD display, An LCD display for best visibility and longer battery life, unlike the outdated LED counters that aren't visible in sunlight and drain the power right out of the counter, 1 MHz - 250 MHz direct count capability for high resolution, 1 MHz - 2.8 GHz frequency range, 10 MHz timebase, maximized sensitivity for picking up radio transmissions, direct and pre-scaled ranges, the Capture mode allows for a frequency to remain displayed as long as you so desire, with no chance of being overridden by surrounding RF

OPTOELECTRONICS R10

COMMUNICATIONS INTERCEPTOR

$299

Optoelectronics presents a totally new instrumentation concept, the Model R10 FM Communications Interceptor. Developed for two-way communications test, it has significant impact in security, counter-surveillance and recreational communications monitoring applications. The Interceptor measures deviation (wide and narrow band), relative signal strength, signaling tones (CTCSS, DCS, and DTMF) using the companion DC440 Decoder or TC200 Tone Counter. The R10 can be used for any measurement requiring demodulated FM. The R10 is ideal for testing VHF, UHF and Cellular transmitters and can be a low cost highly portable substitute for a service monitor in some applications. Features: Pocket Sized, for test applications, demodulated audio output is available from a stereo phone jack, built-in speaker. Frequency Range: 30-2000 MHz; Modulation: FM; Deviation: < 100 kHz; Frequency Response: 50-3000 Hz; Auto Tune Time: <2 seconds; Input: 50 Ω, -45 dBm @ 100 MHz, -20 dBm @ 1 GHz; Outputs: Internal speaker, Audio out jack.

OPTOELECTRONICS R20

INTERCEPTOR/BUG DETECTOR

$119

The R20 AM Interceptor™ is both a sensitive RF signal strength meter (for ALL RF signals) and a near field AM receiver. The 10 segment LED bargraph responds with nominal 3 dB increments to RF signal level received through the built-in antenna. Amplitude modulated signals are detected and can be monitored using the earphone supplied. FM transmitters can be detected by quieting, resulting from detector saturation. The audio output is processed used automatic level circuitry. This eliminates the need for a volume control and also protects the listener from strong signals that produce potentially harmful loud transients. Frequency Range: .5 MHz to >2.5 GHz (wide bandwidth); Outputs: Earphone Jack for Demodulated Audio Out; Indicators: 10 Segment LED Bargraph; Power: Internal 9 V battery powered with easy access compartment. 3+ hour battery life; Antenna: Telescoping whip antenna collapses inside case; Size: Pager Size 4.2" H x 2.4" W x .9" D

Save On Used, Demo & Returned Items
Hurry . . . Quantities Are Limited!

HF Radios

ITEM	PRICE
Icom IC-729	$995.00
Icom IC-735	$950.00
Icom IC-735	$775.00
Icom IC-737	$949.00
Icom IC-781	$5,899.00
Kenwood TS-520	$360.00
Kenwood TS-820S	$525.00
Kenwood TS-820S	$525.00
Kenwood TS-940S	$1,349.00
Yaesu FT-101ZD	$499.00
Yaesu FT-890	$1,095.00
Yaesu FT-900AT	$1,099.00
Yaesu FT-990AT D.C. version	$1,595.00

HF Amplifiers

ITEM	PRICE
Henry 2KD Classic ...Legal Limit Amp	$1,349.00

HF Accessories

ITEM	PRICE
AEA AT-300 Legal Limit Antenna tuner	$150.00
AEA PCB-88	$119.00
AEA PK-232	$150.00
AEA SWR-121	$299.00
Drake PS-75	$175.00
Icom SP-21	$95.00
Kenwood AT-200	$59.95
Kenwood DSP-100 For TS-850S	$299.00
Kenwoood MC-60	$79.00
Kenwood PS-430	$135.00
Yaesu FV-101Z.External VFO for FT-101ZD	$85.00
Kenwood SM-220	$249.00
Kenwood VFO-820	$79.95
MFJ-1278B	$219.00
Nye-Viking MB-V-ALegal-limit Antenna Tuner	$699.00
Tucker T-275	$99.00
Tucker T-1000	$109.00

HF Accessories Cont.

Tucker T-1000	$109.00
Tucker TM-3000HF	$54.95
Yaesu SP-901PExternal Speaker w/phone patch	$55.00

HF Receivers

ITEM	PRICE
Kenwood R-1000	$299.00
VHF/UHF BASE/MOBILE	
Alinco DR-600T	$499.00
Alinco DR-600T	$499.00
Alinco DR-MO6T	$360.00
Azden PCS-6000H	$250.00
Icom IC-281H	$369.00
Icom IC-970H	$2,799.00
Icom IC-2000H	$299.00
Yaesu FT-227R	$195.00
Yaesu FT-690	$575.00

Handhelds

ITEM	PRICE
Alinco DJ-F1T	$249.95
Kenwood TH-28A Demo	$299.00
Kenwood TH-28A	$289.00
Kenwood TH-79ADH	$439.00
Santec ST-7T 440 MHz HT	$175.00

Scanners

AOR AR-8000	$559.00
Icom IC-R1	$399.00
Uniden BC-2500XLT	$339.00
Uniden BC-9000XLT	$369.00

Portable Shortwaves

ITEM	PRICE
Grundig YB-305	$129.95
Grundig Satellit 700	$399.00
Sangean ATS-202	$59.95
Sony ICF-SW10	$39.95
Sony ICF-SW15	$59.00
Sony ICF-SW30	$69.00

Uniden GMR 100
Handheld GMRS Radio

The Uniden GMR 100 personal 2-way radios are the ultimate way to stay in touch. Whether you're skiing, sailing, biking, keeping up with your work crew or keeping up with the kids, you're never more than a push button away with the durable GMR 100. Mail in license for operation is included and they have a full one mile range, greater than most other personal 2-way radios. Features include 8 channels to select for best reception, TX/BAT LOW LED, removable belt clip,busy alert toneand external speaker/mic jack. Comes complete with rubber antenna and rechargable long-life NICAD battery with A.C. charger.

SPECIFICATIONS:

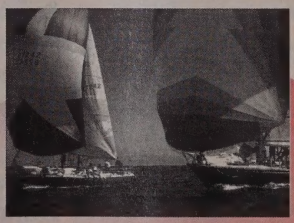
- Channels: 8
- Frequency Range: 462.55 MHz-462.725 MHz.
- Antenna Connector: TNC Type
- External Connectors: Microphone 2.5mm, Speaker 3.5mm, Charge 3.5m
- Controls: Volume with power on/off, Squelch, Push-to-Talk, Channel Selector
- Indicators: TX/BATT Low(RED), BUSY(Yellow)
- Cabinet Size: 5.9375"(H) x 2.375"(W) x 1.625"(D)
- Weight: 15.5 oz.
- Speaker: Built-in Dynamic type
- Microphone: Built-in Electret type
- Regulation: Meets FCC Part 95 and Part 15

OPTIONAL ACCESSORIES:

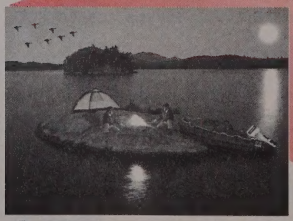
Uniden GMR-103 Extra Nicad Battery $24.95
Uniden GMR-105 Desk Charger $59.95
Uniden GMR-107 Speaker/Mic $49.95

$199.95

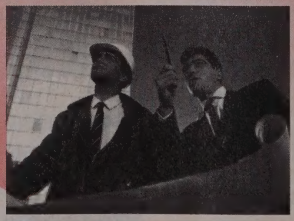
On The Slopes...



Around The Lake...



At Your Campsite...



On The Job...

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WHY YOU NEED A 900 MHz SECURE CORDLESS PHONE:

Most people think of cordless telephones as just another telephone, when, in fact, they are FM radio transmitters. As many of you know, standard cordless phones that work in the 46-49 MHz range can be received on any scanner, including the ones we sell. Telephone conversations, with such confidential information as credit card numbers, travel plans, family matters, privileged business information and many other personal details, can be broadcast throughout your entire neighborhood and monitored by anyone!

With this in mind, we introduce to you the following Uniden 900 MHz cordless phones with advanced security features. These phones ensure your privacy. All employ advanced scrambling techniques to foil even the most sophisticated would-be listener. The EXP-900 and EXP-915 uses voice scrambling to make your voice unintelligible on a scanner (trust us, we've tested this!). The EXP-9100 and EXP-9200 employ spread-spectrum technology that changes the transmit frequency of the phone hundreds of times every second making interception impossible.

In addition to being secure, these phones offer far greater range (up to seven times as far) than standard cordless phones. The clarity is also far better than any phones we've seen before. For the ultimate in security and performance your choice in cordless phones should be one of the following.

$169

UNIDEN EXP-900 (WHITE), OR EXP-915 (BLACK)

CORDLESS TELEPHONE

NEW!

The Uniden EXP-900/915 cordless telephones are designed and engineered to exacting standard for reliability, long life and outstanding performance. The EXP-900/915 are loaded with exceptional features and built with quality that goes the distance.

Features include:

- *VOICE SCRAMBLE SECURITY-This unique feature scrambles your transmissions for the most secure and private conversations*
- *10 NUMBER MEMORY- Lets you program up to 10 numbers for quick dialing.*

900 MHz-The EXP-900/915 offers you unparalleled range, voice clarity, security and performance.

- *HEADSET CAPABILITY-The EXP-900/915 allow for an optional headset to be connected for hands-free operation.*
- *MORE FEATURES-The EXP-900/915 offer a long-life battery, compander circuitry, a page/find feature, plus it is hearing aid compatible.*

UNIDEN EXP-9100

SPREAD-SPECTRUM CORDLESS PHONE

Digital Spread Spectrum Technology provides an unparalleled secure digital link between the base unit and handset which eliminates any chance of outside monitoring and improves noise reduction for top quality sound. Features include:

- *900 MHz operation for up to 7 times extended range*
- *Multi-channel auto scan for static-free operation*
- *Hands-free intercom*
- *20 number memory-3 one-touch memories*
- *2-Way page/find*
- *7 Day Battery*
- *Illuminated Keypad*
- *Wall Mountable*
- *Call Monitor*
- *Back Up Battery Recharging System*
- *Redial • Flash • Mute*

$269

UNIDEN EXP-9200

TWO LINE SPREAD-SPECTRUM CORDLESS PHONE

Same features as the EXP-9200 with 2 line operation, dual key pad, conference calling, hands free speaker phone, 20 number memory, 7 day battery life and call monitor.

$329

TUCKER T-1000
THE BEST 300 W TUNER

$139.95

The Tucker T-1000 has been designed to give you more than any other tuner currently available for 300 W and its construction will let you appreciate its many features for years to come. Covers the entire frequency range up to 300 W PEP. Utilizes continuous rotation capacitors to provide superior transmitter/antenna tuning. Inductance is setup using a 12-position switched inductor. Antenna Selector: six positions: COAX 1 tuned and DIRECT, COAX 2 tuned and DIRECT, bypass and balanced antenna. Power Switch: high and low (300 W/30 W). Comes complete with a 1 year warranty and our risk-free Tucker SatisfactionPlus guarantee

- *RF Power: 300 W PEP*
- *Frequency Range: 1.8 to 30 MHz*
- *Transmitter/Antenna Tuning: Continuous rotation capacitors*
- *Inductance: 12-position switched inductor*
- *Antenna Selector: Six positions; COAX 1 tuned and DIRECT, COAX 2 tuned and DIRECT, bypass and balanced antenna*
- *Power Switch: High and low (300 W/30 W)*
- *Dimensions: 10.2" (259 mm) W x 9.4" (239 mm) D x 3.5 (89 mm) H*
- *Weight: 3.4 lbs (1.5 kg)*
- *Made in the U.S.A.! Get the best, order your T-1000 today!*

Items with this logo, due to oversize or overweight, are shipped via surface transport.

THE TUCKER T-3000 THE FINEST LEGAL LIMIT ANTENNA TUNER MADE!

$349

TUCKER T-3000 LEGAL LIMIT ANTENNA TUNER

We built the Tucker T-1000 to be the finest 300 W antenna tuner made. You responded by making it the hottest- selling tuner in Amateur Radio! You also told us you wanted to see us develop a legal-limit version of the T-1000…well, here it is!

Easy, Arc-Free 1.8-30 MHz Operation:

We use DUAL 4.5 kV capacitors for antenna and input tuning and a HUGE 28uH roller inductor with #10 bright tin plated wire and Delrin/Teflon body. The massive inductor is controlled with dual nylon gears and a precision 5 digit mechanical counter for accurate resettability. Will tune ANY real antenna: dipoles, vertical, inverted vees, beams, longwires, SWL antennas…ANYTHING! and its huge components make the tuning ARC-FREE!

Great Tuning Options:

The 6 position ceramic coax switch allows you to switch between two antennas either tuned or BYPASSED, a balanced line or end-fed wire antenna. The switch is conservatively rated for years of safe use. You even get a built-in 2.5 kW 4:1 Balun for balanced lines.

More Metering:

You get a lighted dual movement D'Arsonval Cross-Needle Power/SWR meter that displays SWR and Power SIMULTANEOUSLY for easy measurement. The meter includes a RF directional coupler sensing head for even greater accuracy. Of course, it measures both peak and average power in 300/3000 W scales. In addition to this great meter, on the T-3000 we have added a 21 segment Bar Graph Display for analyzing SSB power measurements. This LED meter shows peak reading and has fully adjustable level and delay controls.

Superior Materials and Assembly:

The T-3000 is the finest legal limit antenna tuner made not only because of the superior components used but also the high-quality construction. We use the finest connectors and components available- not the cheapest we can find like other manufacturers. Our Aluminum case is chemically treated to inhibit oxidation so the paint will not scratch or chip off during normal use. The attractive two-color front-panel is reverse printed on Lexan (not painted on metal) so it is scratch-proof as well. We call this the Quarter-test. Take a Quarter and try to scratch the T-3000 front-panel. You can scratch as much as you want and not make a mark in our front-panel. Now take the same Quarter and scratch our competitor's tuner. On second thought, don't do this- you'll scratch it up beyond recognition!

Tucker SatisfactionPlus 30-Days - No Questions Asked Guarantee

Outstanding Customer Support:

We have built a 28 year reputation for customer service. Should you ever have a question or problem with your T-3000, simply give us a call TOLL-FREE at 1-800-527-4642 and we will quickly solve your problem or answer your question.

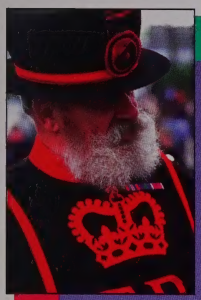
One Year Warranty and Our Exclusive Satisfaction Plus Guarantee:

The T-3000 has a solid one year warranty behind it, although we are sure you will never need to use it. Our SATISFACTION PLUS guarantee is simple…we want you to be more satisfied with your new tuner! We are so confident that you will agree that the T-3000 is the best legal limit tuner that you may return it anytime within 30 days of purchase for a no hassle, no questions asked full refund-NOBODY CAN MATCH THIS!

Better Construction, More Value, Tucker Support and Service… The Choice is Clear The New Tucker T-3000!

Specifications:

- *RF Power: 1000 W single tone continuous, 2 kW PEP SSB*
- *Frequency Range: 1.8-30 MHz; continuously variable*
- *Transmitter/Antenna Tuning • Continuous Rotation 4.5 kV capacitors*
- *Inductance: 28 uH roller inductor w/#10 tin-plated wire, Delrin/Teflon body*
- *Antenna Selector: 6 position ceramic coax switch: COAX 1 Tuned and Tuner Bypass, COAX 2 Tuned and Tuner Bypass, Bypass and Balanced Antenna*
- *Metering: Cross-Needle SWR/PWR with High and Low (300/3000 W) position, 21 LED Bar-Graph meter for Peak SSB reading*
- *Connectors: Coax 1&2 SO-239 connectors, Bypass SO-239 connector, Balanced Line Dual High Voltage Delrin terminal Posts with 4:1 2.5 kw balun*
- *End-Fed Wire High Voltage Delrin Terminal Post*
- *Dimensions: 5.5"(140mm)H x 12.5"(318mm)W x 12"(305mm)D*
- *Weight: 10 lbs. (4.5 kg)*



ANYPLACE. ANYWHERE. ANYTIME.

YB 400

Travel the airwaves with Grundig's portable digital Yacht Boy 400. Listening has never been easier...the BBC commentary from London, the news from Berlin, Beijing, the Balkans and more. Imagine!

Only Grundig with its reputation for world class electronics could offer a radio so advanced and compact. AM/FM/Shortwave, digital tuning, auto scan and 40-memory preset, clock alarm and timer. Also includes ***Grundig Shortwave Listening Guide***, four AA batteries, external antennae, earphones and carrying case.

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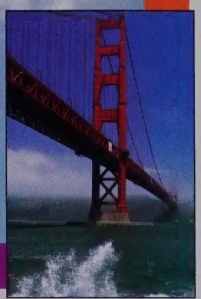

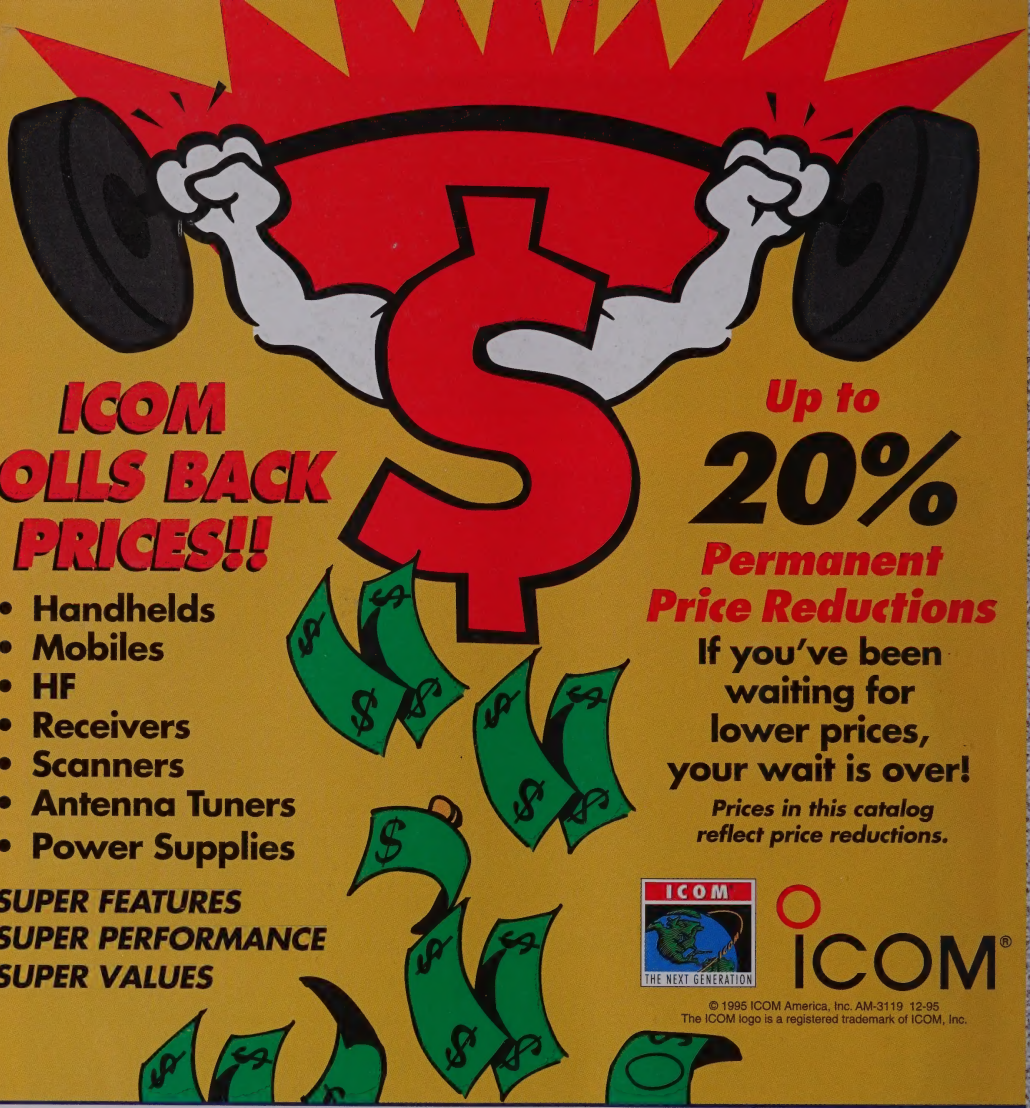

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